

CBL

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS ☒ X WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

DATE FILED NOVEMBER 14, 1997

LAND: FEE &amp; PATENTED STATE LEASE NO. ML-44305

PUBLIC LEASE NO.

INDIAN

DRILLING APPROVED: DECEMBER 17, 1997

SPUDDED IN: 1-30-98

COMPLETED: 4-20-98 POU PUT TO PRODUCING: 4-20-98

INITIAL PRODUCTION: 0-86 BBL G-155 ACF W-5 BBL

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 4982-5948'

TOTAL DEPTH: 6050'

WELL ELEVATION: 5059' GR

DATE ABANDONED:

FIELD: EIGHT MILE FLAT NORTH

UNIT:

COUNTY: UINTAH

WELL NO. ODEKIRK SPRING 3-36

API NO. 43-047-33015

LOCATION 660 FNL FT. FROM (N) (S) LINE, 1980 FWL

FT. FROM (E) (W) LINE NE NW

1/4 - 1/4 SEC. 36

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				8S	17E	36	INLAND PRODUCTION

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
11 2 4305	Dakota	Park City	McCracken
Point 3 4565	Burro Canyon	Rico (Goodridge)	Aneth
X MKR 4786	Cedar Mountain	Supai	Simonson Dolomite
Y MKR 4824	Buckhorn	Wolfcamp	Sevy Dolomite
Douglas Crk 4949	JURASSIC	CARBON I FEROUS	North Point
Washen BI-Carb 5190	Morrison	Pennsylvanian	SILURIAN
Stone Cabin B-Lime 5334	Salt Wash	Oquirrh	Laketown Dolomite
Colton Castle PK 5796	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff Basal Carb NDE	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐

1b. TYPE OF WELL

OIL ☒ GAS ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS AND TELEPHONE NUMBER:

P.O. Box 790233 Vernal, UT 84079

Phone: (801) 789-1866

4. LOCATION OF WELL (FOOTAGE)

At Surface NE/NW

At proposed Producing Zone

660' FNL & 1980' FWL  
201 603

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

16.2 Miles southeast of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5058.8' GR

22. APPROX. DATE WORK WILL START\*

4th Quarter 1997

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx
7 7/8	5 1/2	15.5#	TD	400 sx followed by 330 sx
				See Detail Below

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:

SURFACE PIPE - Premium Plus Cement, w/ 2% Gel, 2% CaCl<sub>2</sub>, 1/4# Flocele/sk

Weight: 14.8 PPG YIELD: 1.37 Cu Ft/sk H2O Req: 6.4 gal/sk

LONG STRING - Lead: Hibond 65 Modified

Weight: 11.0 PPG YIELD: 3.00 Cu Ft/sk H2O Req: 18.08 gal/sk

Tail: Premium Plus Thixotropic

Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H2O Req: 7.88 gal/sk

24.

Name & Signature

Cheryl Cameron

Title:

Regulatory

Compliance Specialist

Date:

11/7/97

(This space for State use only)

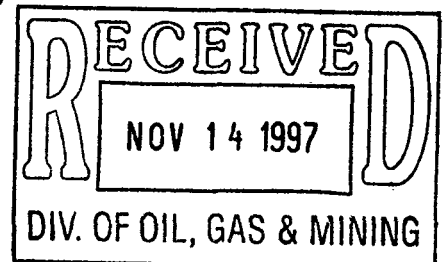
API Number Assigned:

43-047-33015

APPROVAL:

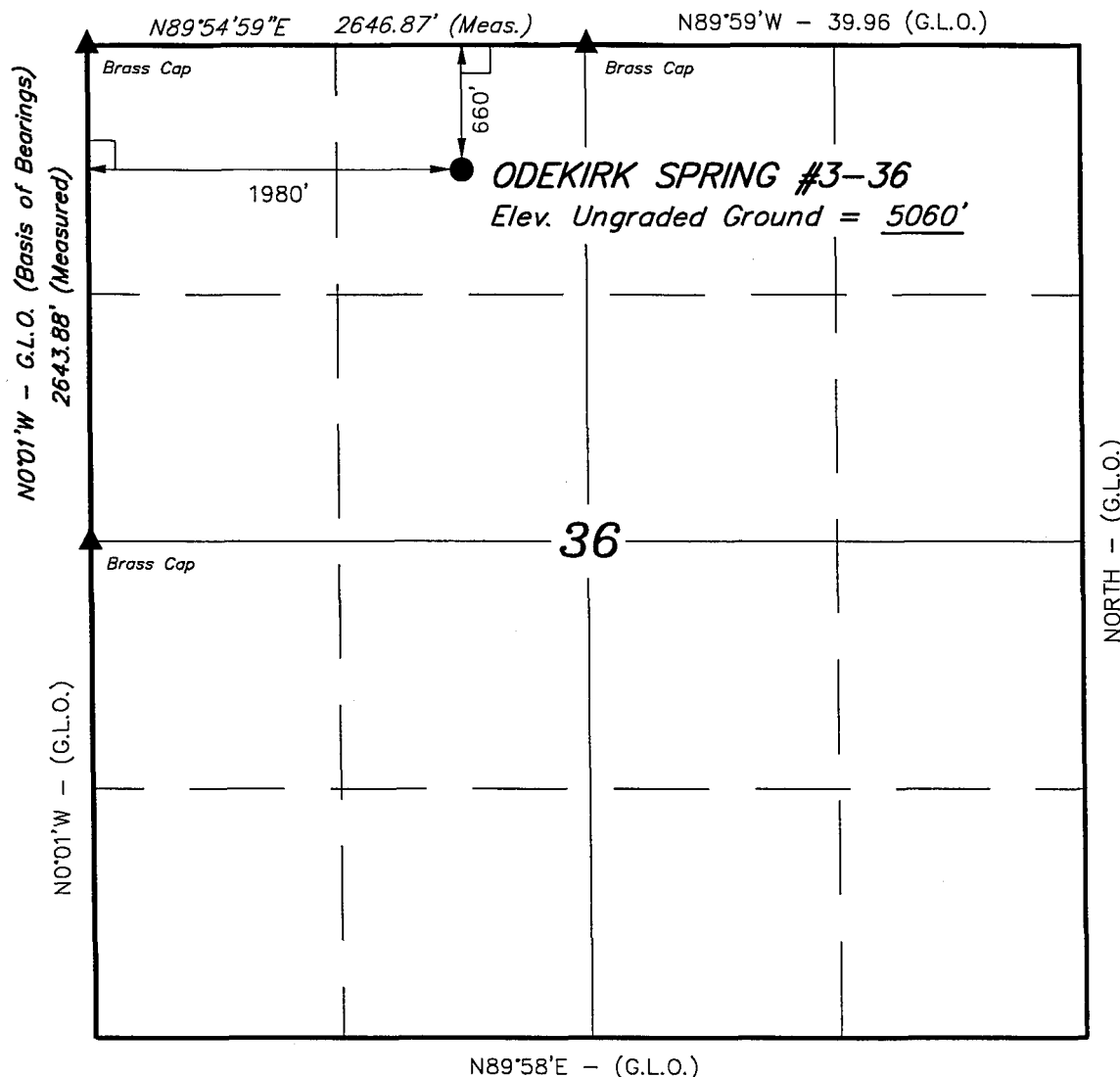
John R. Baya

12/17/97



\*See Instructions On Reverse Side

**T8S, R17E, S.L.B.&M.**



**LEGEND:**

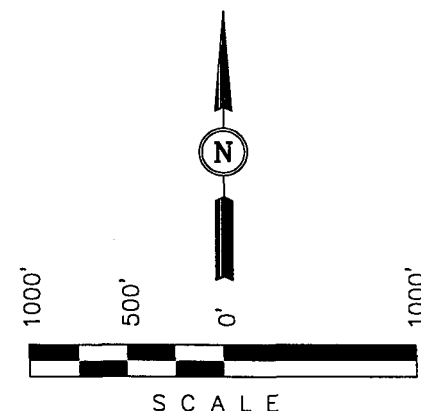
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**INLAND PRODUCTION CO.**

Well location, ODEKIRK SPRING #3-36, located as shown in the NE 1/4 NW 1/4 of Section 36, T8S, R17E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 36, T8S, R17E, S.L.B.&M. TAKEN FROM THE PARIETTE DRAW SW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5034 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Hays*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 781519  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-6-97	DATE DRAWN: 10-9-97
PARTY B.B. D.R. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE INLAND PRODUCTION CO.	

**INLAND PRODUCTION COMPANY  
ODEKIRK SPRING #3-36  
NE/NW SECTION 36, T8S, R17E  
UINTAH COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' - 1730'
Green River	1730'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1730' - 6500' - Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)  
5 1/2", J-55, 15.5# w/ LT&C collars; set at TD (New)

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operators minimum specifications for pressure control equipment are as follows:

A 8" Series 900 Annular Bag type BOP and a 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOPS's will be checked daily.

(See Exhibit F)

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

The well will be drilled with fresh water through the Uinta Formation. From the top of the Green River Formation @ 3050'  $\pm$ , to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Clay inhibition will be achieved with additions of 5 lb. - 8 lb. per barrel of DAP (Di-Ammonium Phosphate, commonly known as fertilizer). This fresh water system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromate's will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

## ODEKIRK SPRING #3-36

### AIR DRILLING

In the event that the proposed location be "Air Drilled", Inland requests a variance to regulations requiring a straight run blooie line. Inland proposes that the flowline will contain two (2) 90 degree turns. Inland also requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line. Inland requests authorization to ignite as needed, and the flowline at 80'.

Inland Production Company requests that the spark arrest, exhaust, or water cooled exhaust be waived under the Special Drilling Operations of Onshore Order #2.

### **MUD PROGRAM**

### **MUD TYPE**

Surface - 320'

Air

320' - 4200'

Air/Mist & Foam

4200' - TD

The well will be drilled with fresh water through the Green River Formation @ 4200'  $\pm$ , to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Clay inhibition will be achieved with additions or by adding DAP (Di-Ammonium Phosphate, commonly known as fertilizer.) Typically, this fresh water/polymer system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

### **7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

### **8. TESTING, LOGGING AND CORING PROGRAMS:**

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Gamma Ray/Caliber from TD to base of surface casing @ 300'  $\pm$ , and a Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'  $\pm$ . The cement bond log will be run from PBTD to cement top. An automated mud logging system will be utilized while drilling to monitor and record penetration rate, and relative gas concentration, in the fluid system.

### **9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

### **10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the forth quarter of 1997, and take approximately six days to drill.

**INLAND PRODUCTION COMPANY  
ODEKIRK SPRING #3-36  
NE/NW SECTION 36, T8S, R17E  
UINTAH COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Odekirk Spring #3-36 located in the NE ¼ NW ¼ Section 36, T8S, R17E, S.L.B. & M. Uintah County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles ± to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 - 10.6 miles to its junction with an existing dirt road to the northeast; proceed northeasterly along this road - 4.1 miles to the beginning of the proposed access road, to be discussed in Item #2.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County Crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads required for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

**2. PLANNED ACCESS ROAD**

Approximately 0.4 miles of access road is proposed.  
See Topographic Map "B".

The proposed access road will be an 18" crown road (9" either side of the centerline) with drainage ditches along either side of the proposed road whether it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

## ODEKIRK SPRING #3-36

All construction material for this access road will be borrowed material accumulated during construction of the access road.

### 3. LOCATION OF EXISTING WELLS

See Exhibit "D".

### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery the well pad will be surrounded by a dike of sufficient capacity to contain at minimum the entire contents of the largest tank within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

### 5. LOCATION AND TYPE OF WATER SUPPLY

Inland Production Company has purchased a 3" water connection with Johnson Water District to supply the Monument Butte, Travis, and Gilsonite oil fields. Johnson Water District has given permission to Inland Production Company to use water from this system, for the purpose of drilling and completing the Odekirk Springs #3-36. A temporary line may be used for water transportation from our existing supply line, from Johnson Water District (See Exhibit "G"), or trucked from Inland Production Company's water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E), or the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E), or the Travis Federal #15-28 (SW/SE Sec. 28, T8S, R16E). See Exhibit "C".

There will be no water well drilled at this site.

### 6. SOURCE OF CONSTRUCTION MATERIALS

See Location Layout Sheet - Exhibit "E".

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

See Location Layout Sheet - Exhibit "E".

A small reserve pit (80 X 40 X 8' deep, or less) will be constructed from native soil and clay materials. A water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the well bore. Any drilling fluids which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel rig tanks. All drilling fluids will be fresh water based containing DAP (Di-Ammonium Phosphate, commonly known as fertilizer), typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride chromate's, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

All completion fluids, frac gels, etc., will be contained in steel tanks and hauled away to approved commercial disposal, as necessary.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby waterflood, for re-injection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer, along with an application for approval of this, as a permanent disposal method.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the west between stakes 4 & 5.

The stockpiled topsoil (first six (6) inches) will be stored on the southwest corner between stakes 3 & 5.

Access to the well pad will be from the north, near stake #7.

Corners # 2, #4, & #8 will be rounded to avoid drainage.

## ODEKIRK SPRING #3-36

### Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39 inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

### 10. PLANS FOR RESTORATION OF SURFACE

#### a) *Producing Location*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/ operations will be re contoured to the approximated natural contours. The reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion . Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per State of Utah, and stated in the conditions of approval.

#### b) *Dry Hole Abandoned Location*

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

### 11. SURFACE OWNERSHIP – State of Utah

12. **OTHER ADDITIONAL INFORMATION**

- a) Inland Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Inland is to immediately stop work that might further disturb such materials, and contact the Authorized Officer.
- b) Inland Production will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Cultural Resource Survey Report is attached.

***Additional Surface Stipulations***

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations. Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. Inland Production is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

***Hazardous Material Declaration***

Inland Production Company guarantees that during the drilling and completion of the Odekirk Springs #3-36, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Inland also guarantees that during the drilling and completion of the Odekirk Spring #3-36 we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Inland Production Company or a contractor employed by Inland Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

ODEKIRK SPRING #3-36

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron  
Address: P.O. Box 790233 Vernal, UT 84079  
Telephone: (801) 789-1866

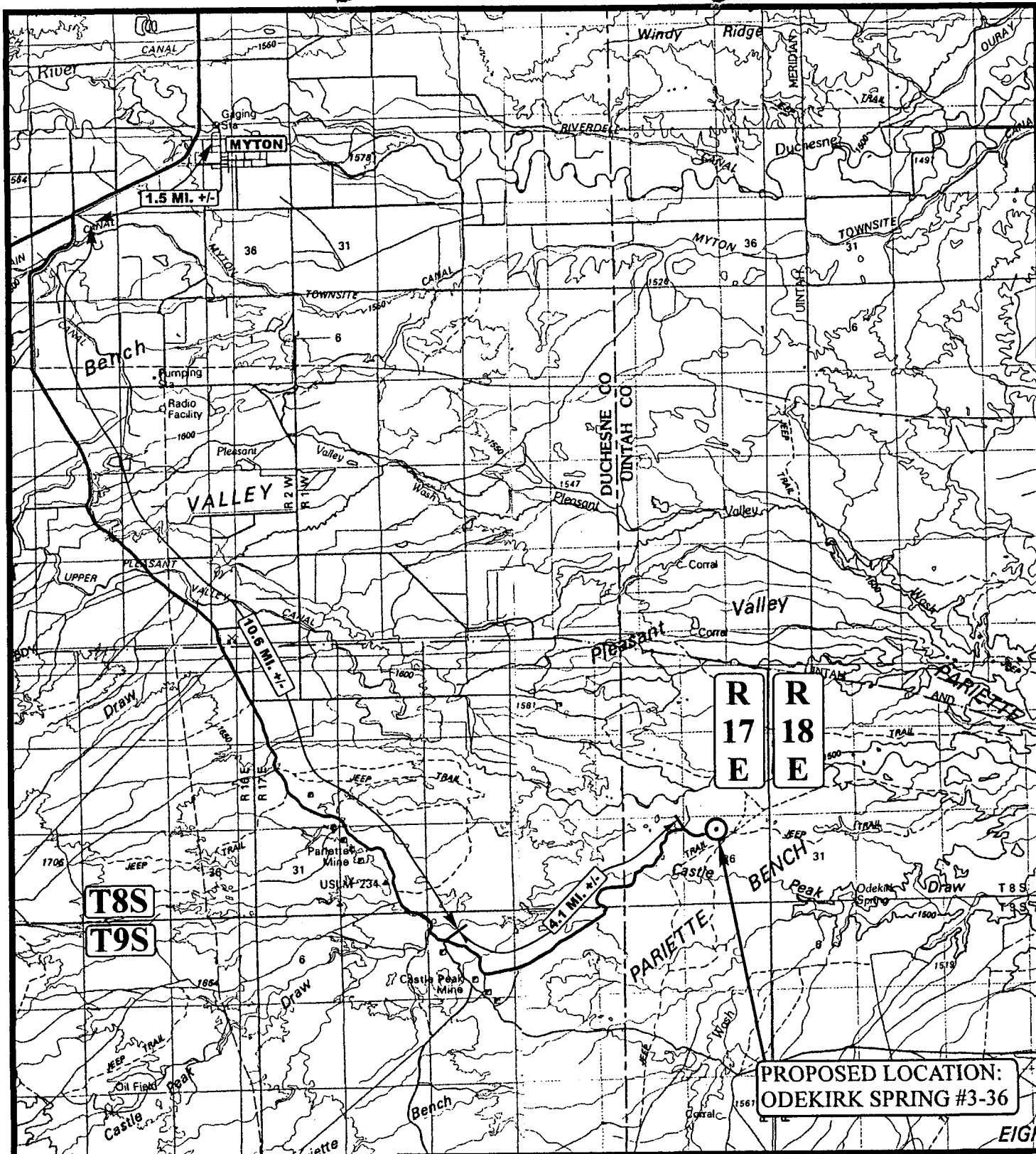
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Well #3-36 NE/NW Section 36, Township 8S, Range 17E: Lease #ML-44305 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

11/7/97  
Date

Cheryl Cameron  
Cheryl Cameron  
Regulatory Compliance Specialist



○ PROPOSED LOCATION

**INLAND PRODUCTION CO.**

**ODEKIRK SPRING #3-36**  
**SECTION 36, T8S, R17E, S.L.B.&M.**  
**660' FNL 1980' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1813  
 Email: uels@easilink.com

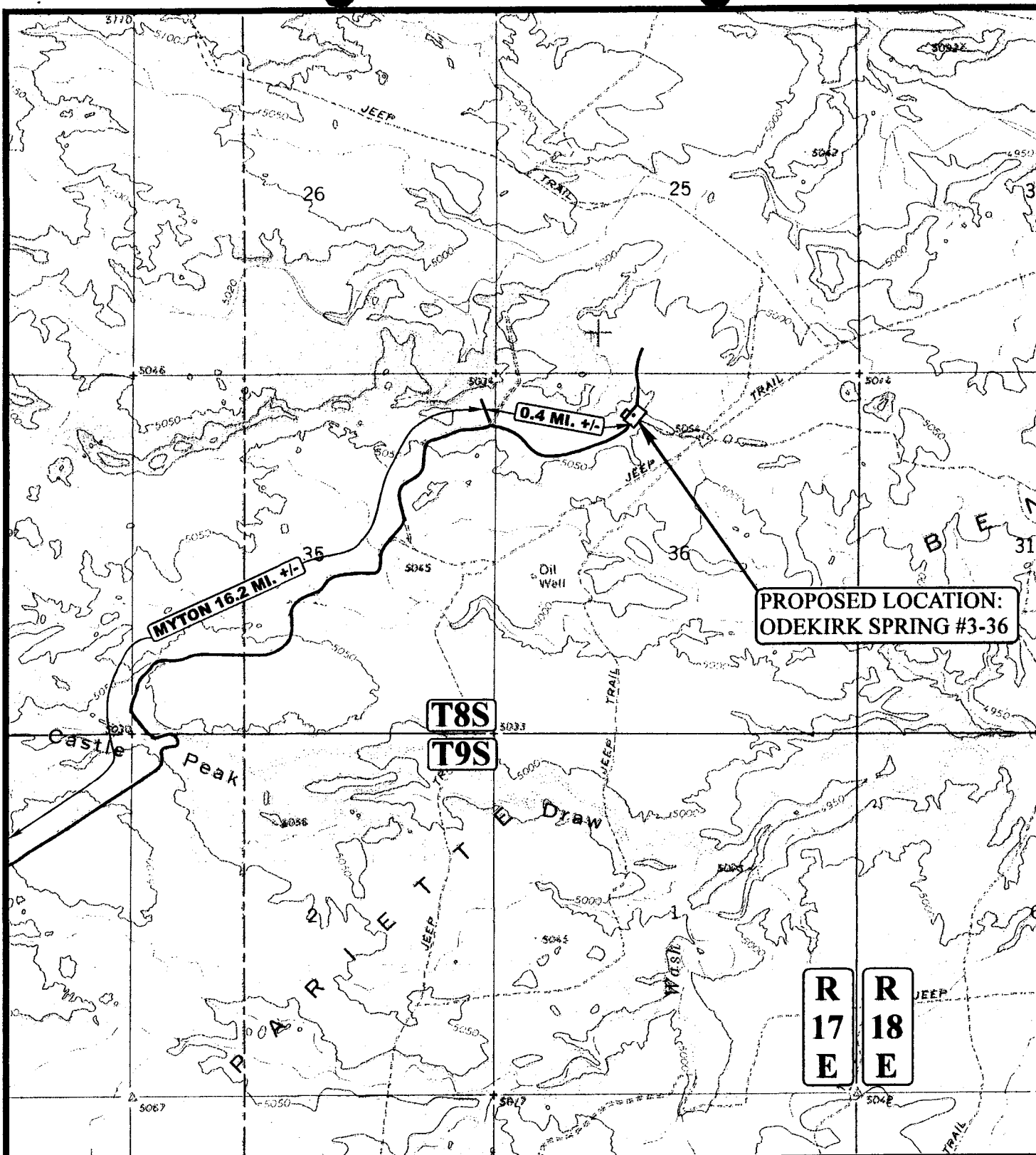


**TOPOGRAPHIC**  
**MAP**

**10 8 97**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00





# **LEGEND:**

----- PROPOSED ACCESS ROAD  
 \_\_\_\_\_ EXISTING ROAD

## **INLAND PRODUCTION CO.**

**ODEKIRK SPRING #3-36**  
**SECTION 36, T8S, R17E, S.L.B.&M.**  
**660' FNL 1980' FWL**



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**TOPOGRAPHIC**  
**MAP**

**10 9 97**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00

**B**  
 TOPO

The map displays the following geological units and their boundaries:

- Travis Unit**: Located in the upper left, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Monument Butte NE**: Located in the upper center, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Boundary Unit**: Located in the upper right, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Monument Butte Unit**: Located in the center, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Monument Butte East**: Located in the lower center, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Gilsonite Unit**: Located in the lower right, containing sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.



475 17<sup>th</sup> Street Suite 1500  
Denver, Colorado 80202  
Phone: (303)-292-0900

Regional Area

**Duchenne County, Utah**

Dec 4/12/97

JA.

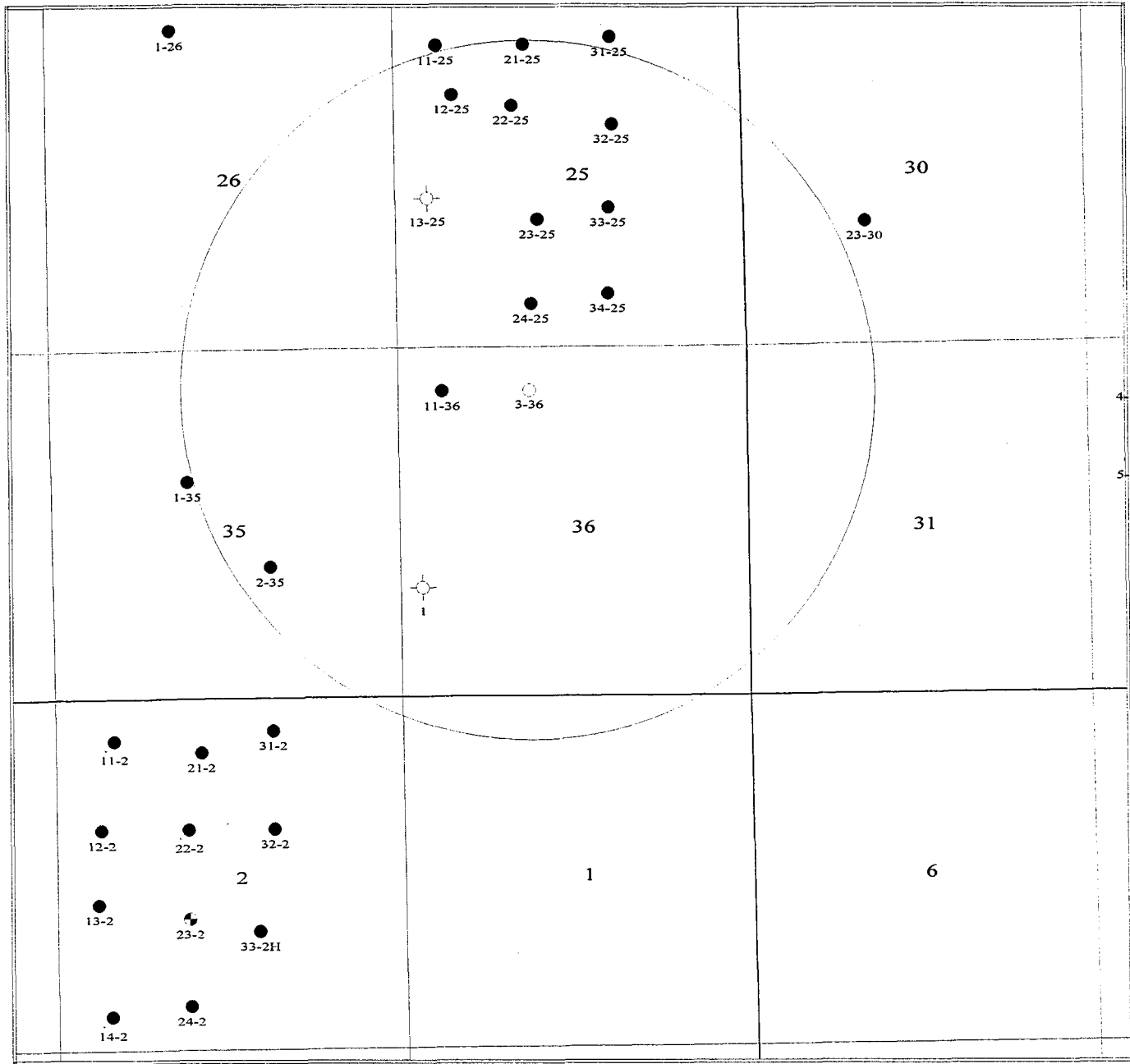


EXHIBIT "D"

INLAND PRODUCTION COMPANY

ONE MILE RADIUS  
ODEKIRK SPRING 3-36

Josh Axelton

Scale 1:24720.73

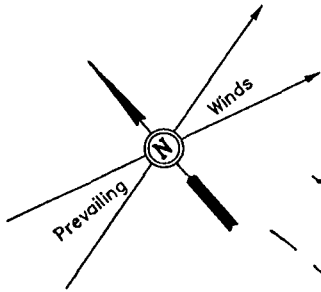
10/24/97

## INLAND PRODUCTION CO.

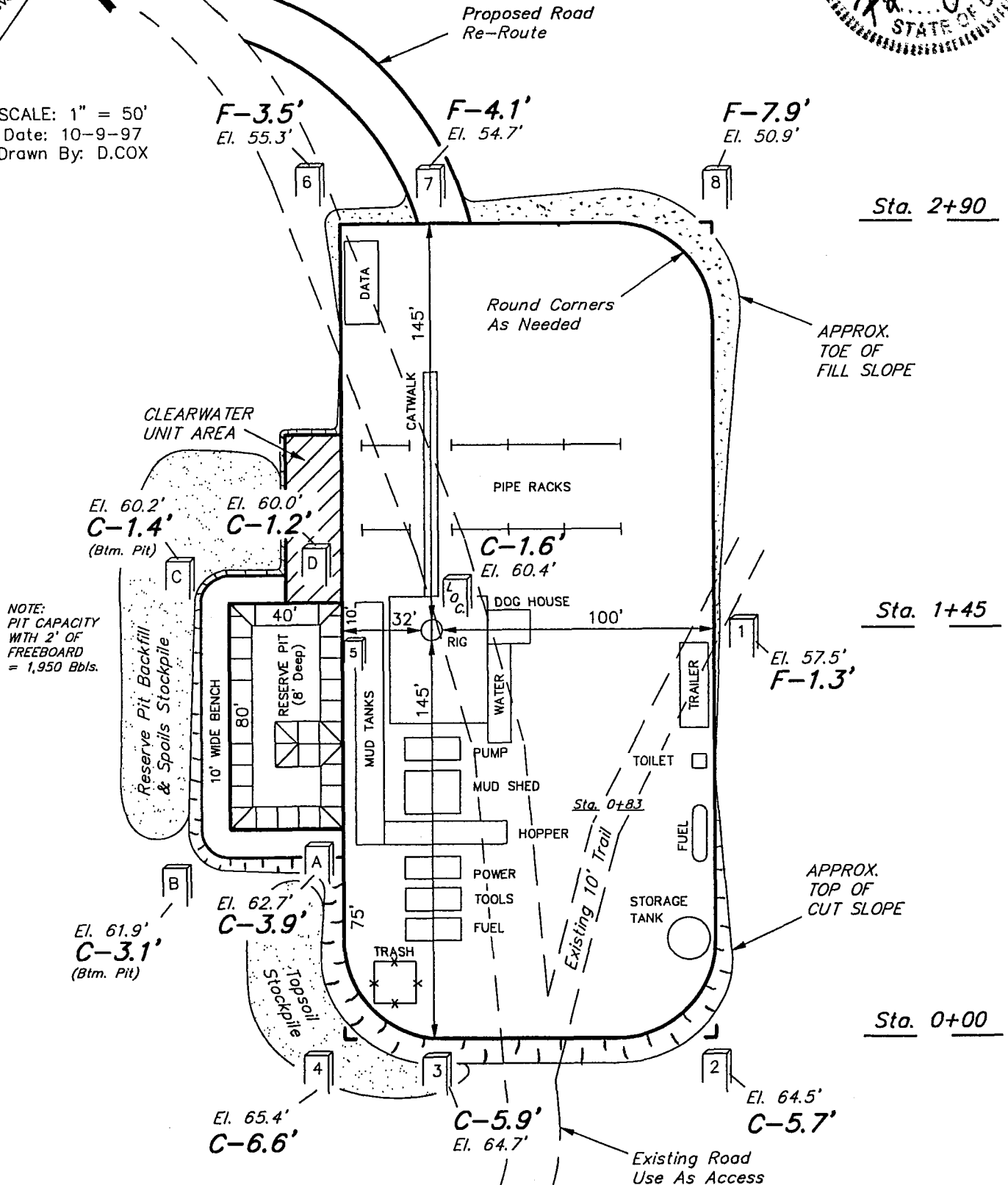
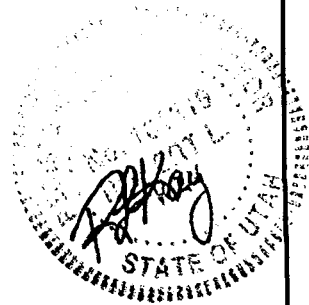
## LOCATION LAYOUT FOR

ODEKIRK SPRING #3-36  
SECTION 36, T8S, R17E, S.L.B.&M.

660' FNL 1980' FWL



SCALE: 1" = 50'  
Date: 10-9-97  
Drawn By: D.COX



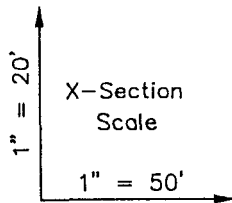
Elev. Ungraded Ground at Location Stake = 5060.4'  
Elev. Graded Ground at Location Stake = 5058.8'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah, 84078 • (801) 789-1017

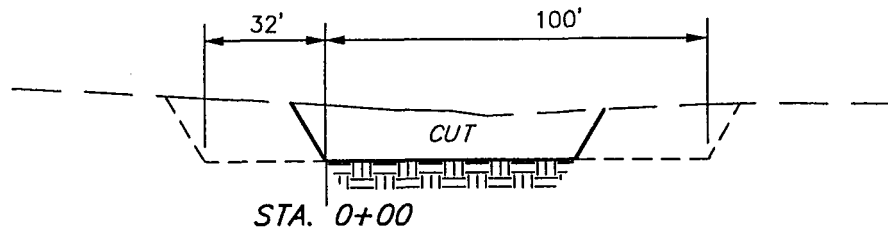
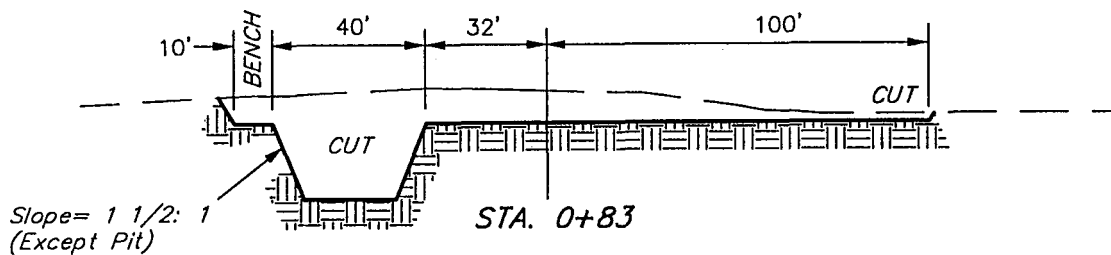
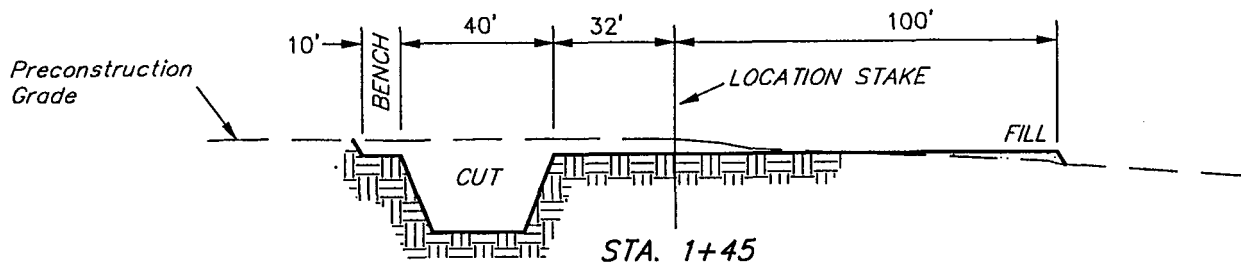
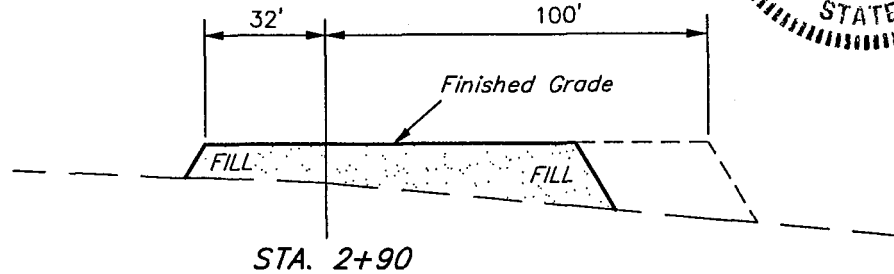
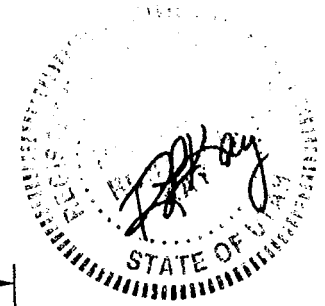
## INLAND PRODUCTION CO.

## TYPICAL CROSS SECTIONS FOR

ODEKIRK SPRING #3-36  
SECTION 36, T8S, R17E, S.L.B.&M.  
660' FNL 1980' FWL



Date: 10-9-97  
Drawn By: D.COX



## APPROXIMATE YARDAGES

## CUT

(6") Topsoil Stripping = 780 Cu. Yds.  
Remaining Location = 2,790 Cu. Yds.

TOTAL CUT = 3,570 CU.YDS.

FILL = 2,360 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 1,090 Cu. Yds.

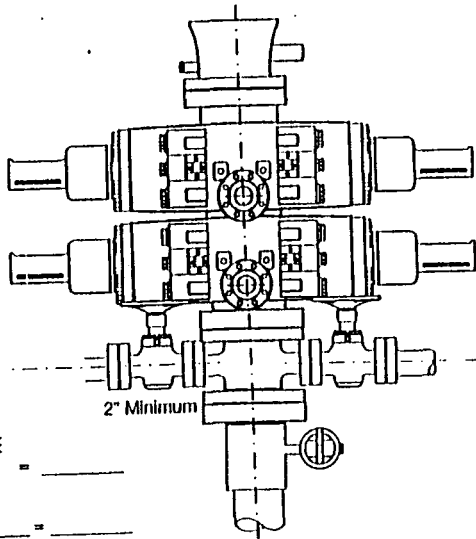
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 1,090 Cu. Yds.

EXCESS MATERIAL After = 0 Cu. Yds.  
Reserve Pit is Backfilled &  
Topsoil is Re-distributed

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

## 2-M SYSTEM

RAM TYPE B.O.P.  
 Make:  
 Size:  
 Model:



GAL TO CLOSE

Annular BOP = \_\_\_\_\_

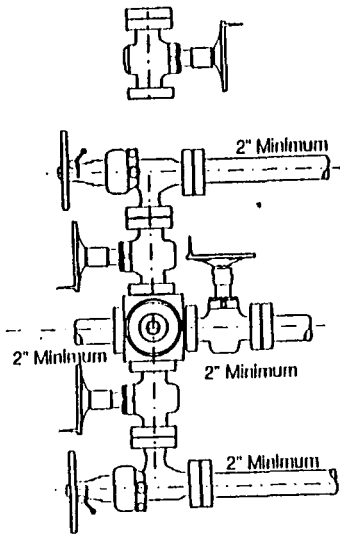
Ramtype BOP

\_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_

= \_\_\_\_\_ Gal.

\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
 increment of 10 gal. would require  
 \_\_\_\_\_ Gal. (total fluid & nitro volume)

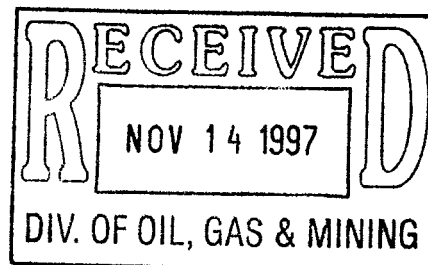


**A CULTURAL RESOURCE SURVEY OF ODEKIRK SPRING**

**WELLS #3-36, #5-36 AND #6-36, UINTAH COUNTY, UTAH**

by

Heather M. Weymouth  
Senior Archaeologist



Prepared for:

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079-0233

Prepared by:

Sagebrush Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 97UT54630

and

Utah State Antiquities Permit No. U-97-SJ-0646b,s

Archaeological Report No. 1019

October 24, 1997

## INTRODUCTION

In October 1997, Inland Production Company (Inland) of Roosevelt, Utah requested that Sagebrush Consultants, L.L.C. (Sagebrush) conduct a cultural resource inventory of Odekirk Wells #3-36, #5-36 and #6-36 in Uintah County, Utah. The purpose of this inventory is to identify cultural resource sites which may be present within the proposed project area.

The proposed wells are located in T. 8S., R. 17E., S. 36 on USGS 7.5' Quadrangle Pariette SW, Utah (1964)(Figure 1). Footages for the well locations are as follows: Odekirk Springs #3-36 (660' FNL 1980' FWL); Odekirk Springs #5-36 (1949' FNL 732' FWL); and Odekirk Springs #6-36 (1934' FNL 1987' FWL). The well pad locations and associated access roads lie on lands administered by the State of Utah and the Bureau of Land Management (BLM). The field inspection was carried out by the author, and Sarah E. Cowie on October 17, 1997 under authority of Cultural Resource Use Permit No. 97-UT-54630 and Utah State Antiquities Permit No. U-97-SJ-0646b,s.

Prior to conducting fieldwork, a file search for previously recorded cultural resource sites located near the project area was conducted by the author on October 10, 1997 at the Division of State History, Utah State Historic Preservation Office, Salt Lake City. In addition, recently completed file searches at the BLM, Vernal District Office indicate that multiple cultural resource projects have been conducted near the current project area.

More than 40 cultural resource projects have been conducted in the vicinity of the current project. Due to the large number of projects conducted in this area, individual project descriptions will not be listed. However, six cultural resource sites are listed as being located near the current project area. Following is a brief description of these sites:

**Site 42Dc2149.** This site, located in a series of dune face blowouts overlooking a tributary of the south fork of Pariette Draw, is a sparse lithic scatter exhibiting potential for depth of cultural materials and features. This site was recommended ELIGIBLE to the National Register of Historic Places (NRHP).

**Site 42Dc2150.** This site, located in a series of dune face blowouts overlooking a tributary of the south fork of Pariette Draw, is a sparse lithic scatter exhibiting potential for depth of cultural materials and features. This site was recommended ELIGIBLE to the NRHP.

**Site 42Un2453.** This site, located on a terraced ridge slope below two conical knolls, is a medium-sized cobble testing quarry. The site consists of approximately 250-300 primary flakes and cobble cores of chert and quartzite, one large bifacially worked tool and two hammerstones. This site was recommended NOT eligible to the NRHP.

**Site 42Un2454.** This site, located on a terraced ridge slope, is a small cobble testing area. The site consists of approximately 100 primary flakes and numerous tested cobbles of chert and quartzite. This site was recommended NOT eligible to the NRHP.

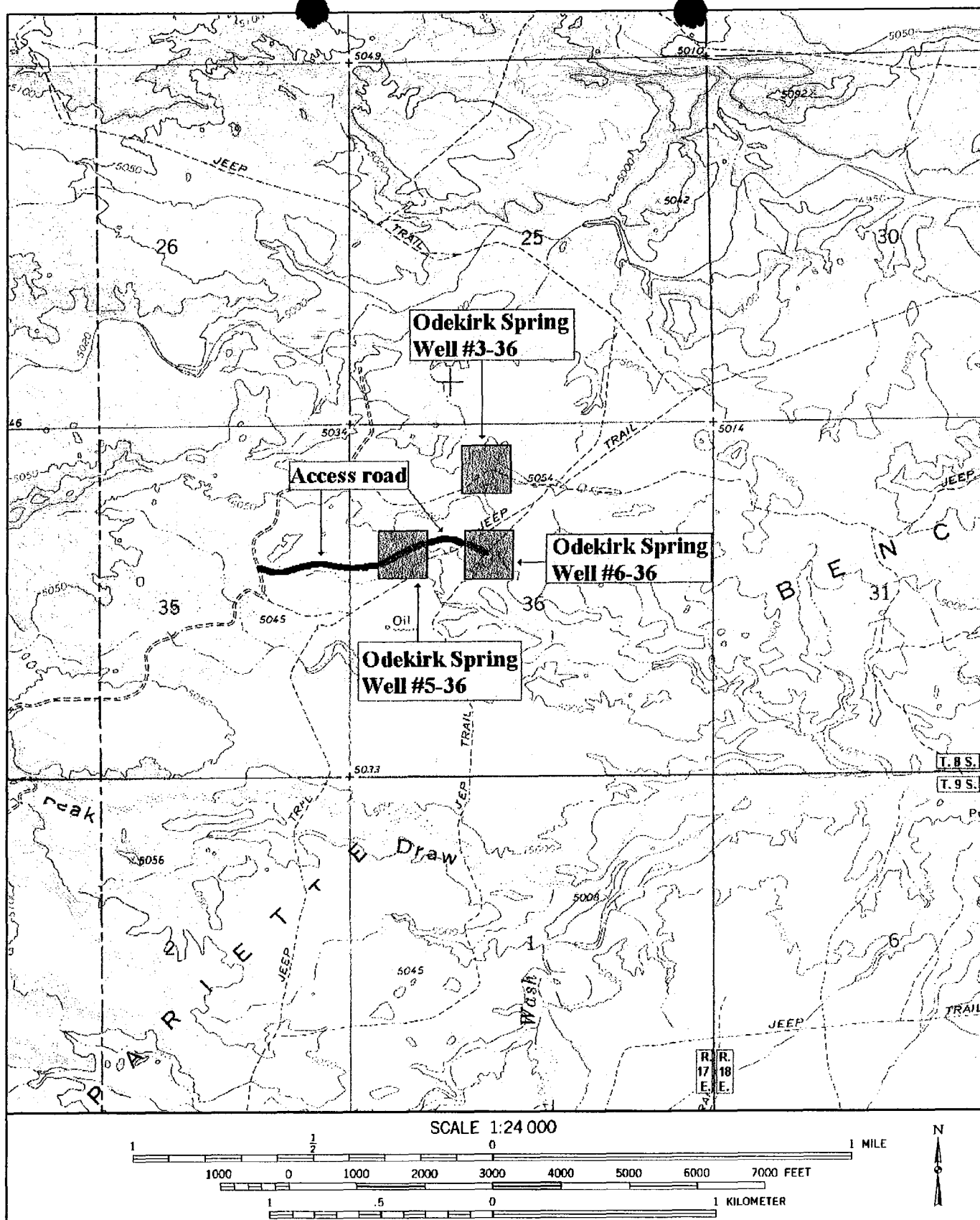


Figure 1. Location of survey areas for the Odekirk Spring #3-36, #5-36, and #6-36 wells and access roads. Taken from: USGS 7.5' Quadrangle Pariette Draw SW, Utah (1964).

**Site 42Un2455.** This site, located on a terraced ridge slope, is a small cobble testing area. The site consists of approximately 100 primary flakes and numerous tested cobbles of chert and quartzite.

**Site 42Un2456.** This site, located along the edge of a terraced ridge slope, is a large low density lithic scatter and cobble testing area. The site consists of greater than 1000 primary and secondary flakes, tested cobbles and cores of chert and quartzite. This site was recommended ELIGIBLE to the NRHP.

No additional cultural resource sites have been recorded in the vicinity of the current project area. The NRHP was reviewed prior to the commencement of fieldwork for the present project. No NRHP sites were found located in the vicinity of the current project area.

## ENVIRONMENT

The project area lies approximately 15 miles south of Fort Duchesne, Utah near Pariette Draw, in an area of low terraced ridge slopes and tablelands dissected by deep drainages and low eroding bedrock outcrops of sandstone and limestone. The surface sediments consist of an interfingering of fluvial deposits and thinly bedded Pleistocene lake bed deposits. Soils in these areas are poorly developed and range from extremely sandy to rocky in nature. Sediments consist of very fine grained, buff colored sand which contains a moderate amount of Pleistocene gravels and angular rock fragments of quartzite, mudstone, blocky chert, limestone and sandstone. Erosional features such as desert pavement are common along the terraced ridge slopes of the area. The elevation of the area surveyed ranges between 5000 and 5080 feet a.s.l. Vegetation is predominantly shadscale community species. Noted species include prickly pear cactus, ricegrass, greasewood, gray rabbitbrush, spiny horsebrush, desert buckwheat, bladderpod, spiny hopsage, Riddell groundsel and various other desert species. The nearest permanent water source in the area is an unnamed tributary to the Pleasant Valley Wash located to the north approximately one half mile from the project area. Cultural disturbance in the project area includes grazing, vehicle traffic and access roads leading to existing well locations.

## METHODOLOGY

The project area consists of three 40,469 m<sup>2</sup> (10 acre) parcels of land 201-by-201 m (660-by-660 ft) centered on the proposed well heads and 1.06 km (0.66 mi) of proposed access road. The well pads were inventoried in parallel transects spaced no more than 15 m (50 ft) apart. The access roads were each walked in two parallel transects spaced 10 m (32 ft) apart to cover a corridor width of 30 m (100 ft) each. The area surveyed during this project (including well pads, and access roads) totaled 15.4 ha. (38.03 ac).

## RESULTS

A total of three prehistoric sites (42Un2481, 42Un2482 and 42Un2483) and one isolated find (IF-1) were recorded during this survey of proposed Odekirk Wells #3-36, #5-36 and #6-36 (Figure 2)(Appendix A and B). No additional sites or isolated artifacts were identified during this inventory.

### IF-1

IF-1, located just south of the well centerstake for Odekirk Springs Well #6-36, consists of a heavily patinated flaked cobble of dark brown chert with cortex on both sides. Flake scars are present on both sides of the cobble, though there are more on one side than the other. The artifact measures 6.6cm long by 4.5cm wide by 1.6 cm thick. It is not temporally diagnostic and cannot be associated with any particular prehistoric culture or period. No other cultural materials were noted at this location.

### Site 42Un2481

Site 42Un2481, located on a low heavily weathered flat on Odekirk Spring Well #6-36, is a small lithic scatter. The site consists of heavily patinated brown chert primary flakes. No tested cobbles were noted, though many cobbles are present in the area. These materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated with heavy desert varnish. The site measures 50 m east-west by 50 m north-south. No concentrations of lithic material were observed and no diagnostic tools or features were identified at the site. There is little probability for depth of cultural materials at the site.

### Site 42Un2482

Site 42Un2482, located on a low heavily weathered flat along the proposed access road corridor to Odekirk Spring Well #5-36, is a long sparse lithic scatter. Lithic materials include primary and secondary flakes of brown chert, tan chert, white quartzite, and orange quartzite flakes. No tested cobbles were noted, though many cobbles are present in the area. These materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated with heavy desert varnish. The site measures 170 m east-west by 50 m north-south. Two bifacially worked cobbles of brown chert were noted. No concentrations of lithic material were observed and no diagnostic tools or features were identified at the site. There is little probability for depth of cultural materials at the site.

### Site 42Un2483

Site 42Un2483, located northwest of a two-track road on a terraced ridge slope, is a small cobble testing area. The site consists of approximately 10 primary flakes of heavily patinated brown chert or quartzite. Also noted were one quartzite hammerstone and four bifacially worked cobbles, though no artifact concentrations, diagnostic tools, or features were identified at the site. Lithic materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated black by heavy desert varnish. Tan platy sandstone lies across the site. There is little probability for depth of cultural materials at the site.

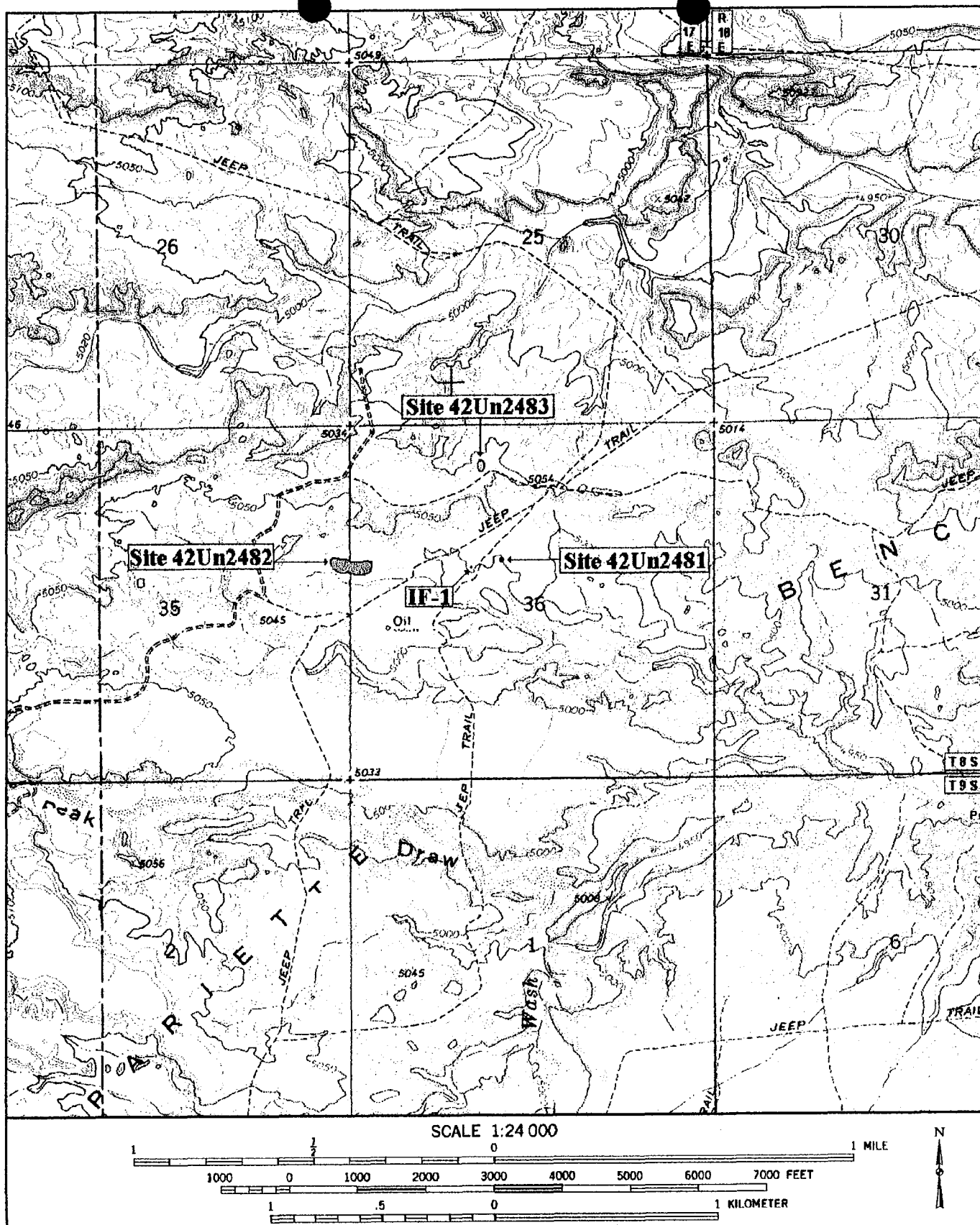


Figure 2. Location of cultural resource sites found during inventory. Taken from: USGS 7.5' Quadrangle Pariette Draw SW, Utah (1964).

## RECOMMENDATIONS

A total of three prehistoric sites (42Un2481, 42Un2482 and 42Un2483) and one isolated find (IF-1) were recorded during this survey of proposed Odekirk Wells #3-36, #5-36 and #6-36. Though one isolated artifact was noted during this survey, this artifact is not associated with any known site and in-and-of-itself cannot be considered for eligibility to the NRHP.

As part of this inventory, sites were evaluated for eligibility to the NRHP based on criteria present in federal regulations set forth in *36CFR 60.4*:

The quality of significance in American history, architecture, archeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

(A) that are associated with events that have made a significant contribution to the broad patterns of our history; or

(B) that are associated with the lives of persons significant in our past; or

(C) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

(D) that have yielded, or may be likely to yield, information important in prehistory or history.

Prehistoric sites 42Un2481, 42Un2482 and 42Un2483 are recommended **NOT** eligible to the NRHP. The location of these sites, upon an erosional desert pavement surface with heavy patination of exposed rocks and artifacts, indicates little to no probability for buried cultural deposits (e.g. intact features). As such, these sites are not likely to provide data useful in answering questions pertaining to the nature of prehistoric habitation in the area.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural resources that are available for visual inspection and could be adversely affected by the proposed project. However, should such resources be discovered on state lands during construction, a report should be made immediately to the State Archaeologist, Utah State Historic Preservation Office, Salt Lake City. Should such resources be discovered on BLM lands during construction, a report should be made immediately to the BLM District Archaeologist, Vernal District Office, Vernal, Utah.

**APPENDIX A**  
**Isolated Artifact Record Sheets**  
**(Detached)**

**APPENDIX B**  
**IMACS Site Forms**  
**(Detached)**

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/14/97

API NO. ASSIGNED: 43-047-33015

WELL NAME: ODEKIRK SPRING 3-36  
OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:  
NENW 36 - T08S - R17E  
SURFACE: 0660-FNL-1980-FWL  
BOTTOM: 0660-FNL-1980-FWL  
UINTAH COUNTY  
EIGHT MILE FLAT NORTH FIELD (590)

LEASE TYPE: STA  
LEASE NUMBER: ML - 44305

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: 12/01/97

TECH REVIEW	Initials	Date
Engineering	<i>SRB</i>	<i>12/17/97</i>
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☐ State ☒ Fee ☐  
(Number \_\_\_\_\_)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number *GILSONITE STATE 7-32*)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
\_\_\_\_ R649-3-3. Exception.  
\_\_\_\_ Drilling Unit.  
\_\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: *Casing OK, Cementing OK, BOP OK*

STIPULATIONS: *1. Statement of Basis*



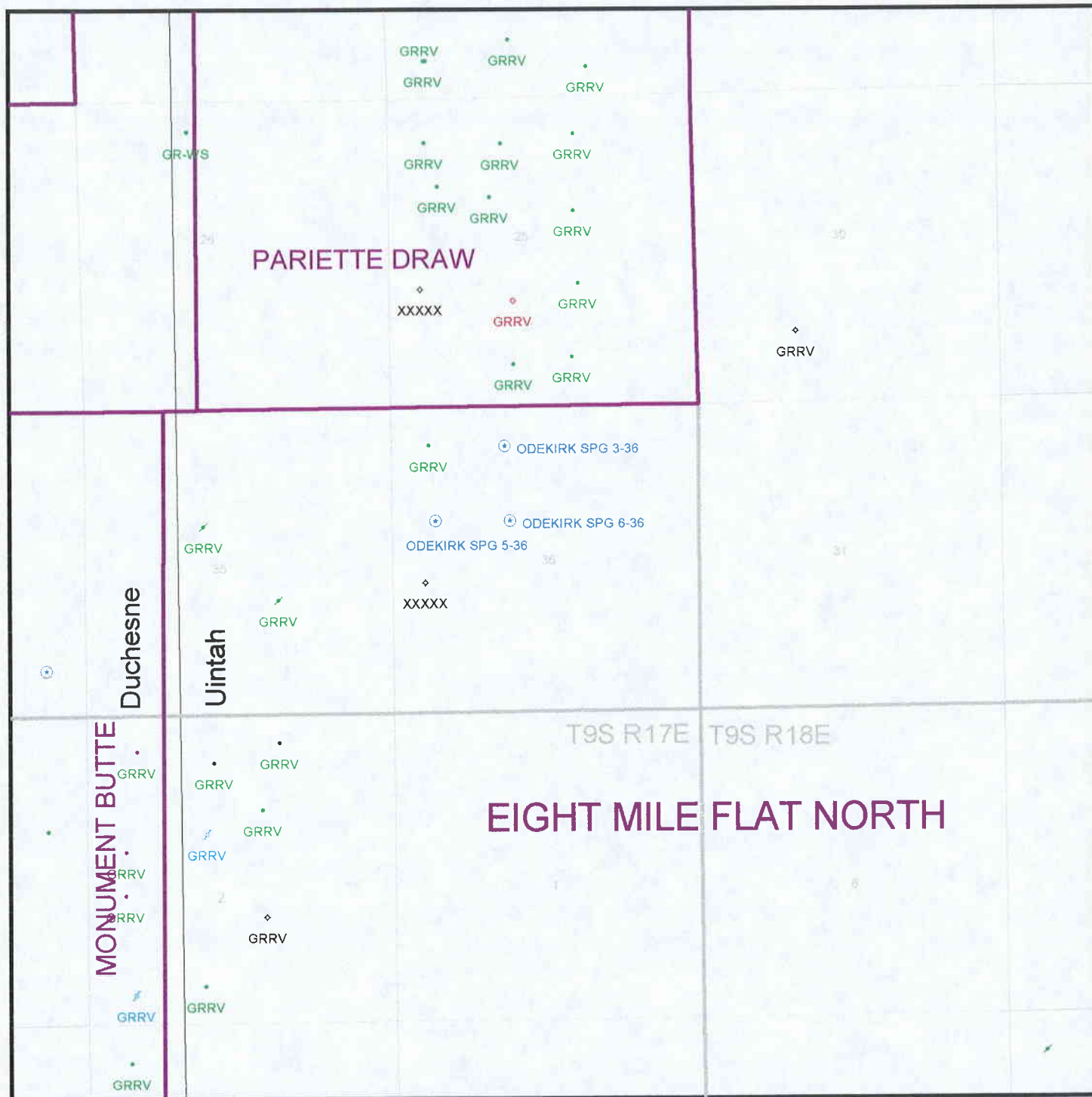
DIVISION OF OIL, GAS & MINING

OPERATOR: INLAND PRODUCTION (N5160)

FIELD: EIGHT MILE FLAT NORTH (590 )

SEC. TWP. RNG.: SEC. 36, T8S, R17E

COUNTY: UINTAH UAC: R649-3-2



DATE PREPARED:  
17-NOV-1997

**DIVISION OF OIL, GAS AND MINING**  
**APPLICATION FOR PERMIT TO DRILL**  
**STATEMENT OF BASIS**

**Operator:** INLAND PRODUCTION COMPANY  
**Well Name & Number:** ODEKIRK SPRING 3-36  
**API Number:** 43-047-33015  
**Location:** 1/4, 1/4 NE/NW Sec. 36 T. 8S R. 17E

**Geology/Ground Water:**

The base of moderately saline water is at a depth of approximately 1700 feet. Fresh water sands may be encountered in the Uinta Formation. These sands are generally discontinuous and not subject to direct recharge. The proposed casing and cement program should adequately isolate and protect all water encountered.

**Reviewer:** D. Jarvis **Date:** 12-10-97

**Surface:**

THE PRE-SITE INVESTIGATION HAS BEEN PERFORMED BY FIELD PERSONNEL ON 12/4/97. ALL APPLICABLE SURFACE MANAGEMENT AGENCIES HAVE BEEN NOTIFIED. NO OTHER AGENCY PERSONNEL CHOSE TO ATTEND. A PLASTIC LINER WILL BE REQUIRED FOR THE RESERVE PIT ON THIS LOCATION. AN EXISTING OILFIELD ROAD CROSSES THIS SITE AND WILL BE RE-ROUTED WEST OF RESERVE PIT WHILE DRILLING IS IN PROGRESS. THIS ROAD WILL BE RECLAIMED WHEN RESERVE PIT IS CLOSED AND ROAD WILL THEN PASS THROUGH LOCATION.

**Reviewer:** DAVID W. HACKFORD **Date:** 12/5/97

**Conditions of Approval/Application for Permit to Drill:**

1. THE RESERVE PIT MUST BE CONSTRUCTED WEST OF WELL BORE.
2. THE RESERVE MUST BE LINED WITH A 12 MIL PLASTIC LINER.
3. EXISTING ROAD WILL BE RE-ROUTED WEST OF RESERVE PIT WHILE DRILLING WELL.

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: INLAND PRODUCTION COMPANY

WELL NAME & NUMBER: ODEKIRK SPRING 3-36

API NUMBER: 43-047-33015

LEASE: ML-44305 FIELD/UNIT: 8 MILE FLAT NORTH

LOCATION: 1/4, 1/4 NE/NW Sec: 36 TWP: 8S RNG: 17E 660' FNL 1980' FWL

LEGAL WELL SITING: 660' F SEC. LINE; 660' F 1/4, 1/4 LINE; \_\_\_\_\_ F ANOTHER WELL.

GPS COORD (UTM): NO READING

SURFACE OWNER: STATE OF UTAH

PARTICIPANTS

DAVID W. HACKFORD (DOGM)

BRAD MECHAM (INLAND PRODUCTION CO.)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

SIGHT IS ON A RIDGE RUNNING EAST TO WEST DROPPING OFF SHARPLY TO THE SOUTH AND GRADUALLY TO THE NORTH. SITE IS 100' NORTH OF CREST OF THIS RIDGE. DRAINAGE IS TO THE NORTH TOWARD PARIETTE CREEK.

SURFACE USE PLAN

CURRENT SURFACE USE: LIVESTOCK AND WILDLIFE GRAZING

PROPOSED SURFACE DISTURBANCE: 290 FEET BY 172 FEET FOR LOCATION AND NO NEW CONSTRUCTION FOR ACCESS.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM THE GIS DATABASE.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: PRODUCTION FACILITIES WILL BE ON LOCATION.

SOURCE OF CONSTRUCTION MATERIAL: MATERIALS WILL BE BORROWED FROM LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WASTE MANAGEMENT PLAN:

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. SEWAGE  
FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL  
CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED  
TO A LANDFILL. ALL HAZARDOUS WASTES WILL BE DISPOSED OF OFFSITE  
AT AN APPROVED FACILITY.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: NATIVE GRASSES, SALT BRUSH, PRICKLY PEAR.  
/PRONGHORN, RODENTS, RABBITS, COYOTES, SONG BIRDS.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SAND WITH SOME BROWN CLAY.

SURFACE FORMATION & CHARACTERISTICS: UINTAH FORMATION, SOUTH FLANK  
OF UINTAH MOUNTAINS.

EROSION/SEDIMENTATION/STABILITY: MINOR EROSION, MINOR SEDIMENTATION,  
NO STABILITY PROBLEMS ANTICIPATED.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

RESERVE PIT

CHARACTERISTICS: 40' BY 80' AND EIGHT FEET DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER WILL BE  
REQUIRED.

SURFACE RESTORATION/RECLAMATION PLAN  
AS PER STATE OF UTAH, TRUST LANDS.

SURFACE AGREEMENT: STATE OF UTAH, TRUST LANDS

CULTURAL RESOURCES/ARCHAEOLOGY: AN ARCHAEOLOGICAL INVESTIGATION HAS BEEN  
CONDUCTED BY SAGEBRUSH CONSULTANTS. A REPORT OF THIS INVESTIGATION WILL BE  
PLACED ON FILE.

OTHER OBSERVATIONS/COMMENTS: ONSITE WAS DONE ON A CLEAR, SUNNY DAY.

ATTACHMENTS

PHOTOS OF SITE WILL BE PLACED ON FILE.

DAVID W. HACKFORD  
DOGM REPRESENTATIVE

12/4/97 11:00 AM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200		
75 to 100	5	
25 to 75	10	
<25 or recharge area	15	<u>5</u>
	20	
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud	15	
Fluid containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>

Presence of Nearby Utility  
Conduits

Not Present	0
Unknown	10
Present	15

0

Final Score 30

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 790233 Vernal, Utah 84079**

**(801) 789-1866**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**See Attached**

5. Lease Designation and Serial No.

**See Attached**

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.

**See Attached**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**Uintah, UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_

☒ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**Inland Production Company requests authorization to increase the size of the reserve pit(s) from 80' X 40' X 80', to 90' X 40' X 8' deep, in order to help contain fluids in the pits, and to help eliminate traffic around the locations, for the following locations that have been submitted for APD approval, listed on the enclosed attachment.**

14. I hereby certify that the foregoing is true and correct

Signed

**Cheryl Cameron**

Title

**Regulatory Compliance Specialist**

Date

**11/17/97**

(This space of Federal or State office use.)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

The following locations were originally permitted for the reserve pit size to be 80' X 40' X 8' deep. Inland requests that the reserve pit (s) be enlarged to 90' X 40' X 8' deep:

<u>Lease No.</u>	<u>Name</u>	<u>Legal Description</u>
ML-45555	Castle Draw #1-2	NE/NE Sec. 2, T9S,R17E
ML-45555	Castle Draw #8-2	SE/NE Sec. 2, T9S, R17E
ML-44305	Odekirk #3-36	NE/NW Sec. 36, T8S R17E
ML-44305	Odekirk #5-36	SW/NW Sec. 36, T8S,R17E
ML-44305	Odekirk #6-36	SE/NW Sec. 36, T8S, R17E



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

December 17, 1997

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079

Re: Odekirk Spring 3-36 Well, 660' FNL, 1980' FWL, NE NW,  
Sec. 36, T. 8 S., R. 17 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33015.

Sincerely,

John R. Baza  
Associate Director

lwp

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Inland Production Company  
Well Name & Number: Odekirk Spring 3-36  
API Number: 43-047-33015  
Lease: ML-44305  
Location: NE NW Sec. 36 T. 8 S. R. 17 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis dated December 10, 1997 (copy attached).

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: ODEKIRK SPRING 3-36

Api No. 43-047-33015

Section 36 Township 8S Range 17E County UINTAH

Drilling Contractor UNION

Rig # 7

SPUDDED:

Date 1/30/98

Time

How ROTARY

Drilling will commence

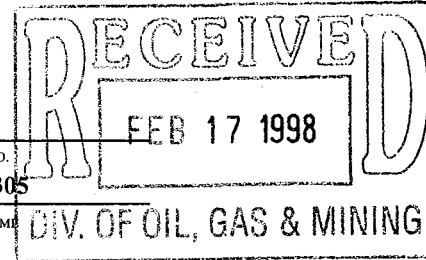
Reported by D. HACKFORD

Telephone #

Date: 2/3/98 Signed: JLT

✓

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING



<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-44305</b>	
6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  N/A		7. UNIT AGREEMENT NAME  NA	
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		8. FARM OR LEASE NAME <b>ODEKIRK SPRING</b>	
3. ADDRESS OF OPERATOR <b>475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900</b>		9. WELL NO. <b>3-36</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NE/NW 660 FNL 1980 FWL</b>		10. FIELD AND POOL, OR WILDCAT  <b>MONUMENT BUTTE</b>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NE/NW Section 36, T08S R17E</b>	
14. API NUMBER <b>43-047-33015</b>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5058 GR</b>	12. COUNTY OR PARISH <b>UINTAH</b>	13. STATE <b>UT</b>

<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>Surface Spud</u>	<input checked="" type="checkbox"/>
(OTHER) _____	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MIRU Union #7. Drl & set 15' of 13-3/8" conductor. Spud well @ 1:00 pm, 1/30/98. Drl MH & RH. Drl Kelly dn. NU air bowl & flowline, head rubber. Drl 12-1/4" hole 21' - 321'. Run 8-5/8" GS, 7 jt 8-5/8", 24#, J-55, ST & C csg (293'). Csg set @ 303'. RU Halliburton. Pmp 5 bbl dye wtr & 20 bbl gel. Cmt w/140 sx Premium Plus w/2% CC & 1/8#/sk Flocele. Had 4 bbl cmt returns. RD HOWCO. WOC. NU BOP's.

18 I hereby certify that the foregoing is true and correct  
SIGNED Shannon Smith TITLE Engineering Secretary DATE 2/4/98

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

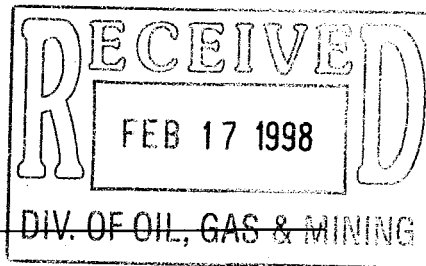
<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <b>ML-44305</b>	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b>  N/A	
<b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>WELL</b> <input checked="" type="checkbox"/> <b>WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>7. UNIT AGREEMENT NAME</b>  NA	
<b>2. NAME OF OPERATOR</b> <b>INLAND PRODUCTION COMPANY</b>		<b>8. FARM OR LEASE NAME</b> <b>ODEKIRK SPRING</b>	
<b>3. ADDRESS OF OPERATOR</b> <b>475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202</b> <b>(303) 292-0900</b>		<b>9. WELL NO.</b> <b>3-36</b>	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NE/NW 660 FNL 1980 FWL</b>		<b>10. FIELD AND POOL, OR WILDCAT</b>  <b>MONUMENT BUTTE</b>	
		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <b>NE/NW Section 36, T08S R17E</b>	
<b>14. API NUMBER</b> <b>43-047-33015</b>	<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <b>5058 GR</b>	<b>12. COUNTY OR PARISH</b> <b>UINTAH</b>	<b>13. STATE</b> <b>UT</b>

<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>Weekly Status</u>	<input checked="" type="checkbox"/>
(OTHER) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 1/29/98 - 2/4/98**

Test lines, valves, rams & manifold to 2000 psi, annular preventer to 1500 psi. GIH. Drl plug, cmt & GS. Drl 321' - 4041'.



**18 I hereby certify that the foregoing is true and correct**  
SIGNED Shannon Smith TITLE Engineering Secretary DATE 2/4/98

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

1. <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-44305</b>	
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <b>N/A</b>	
3. ADDRESS OF OPERATOR <b>410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102</b>		7. UNIT AGREEMENT NAME <b>NA</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NE/NW 660 FNL 1980 FWL</b>		8. FARM OR LEASE NAME <b>ODEKIRK SPRING</b>	
9. WELL NO. <b>3-36</b>		10. FIELD AND POOL, OR WILDCAT <b>MONUMENT BUTTE</b>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NE/NW Section 36, T08S R17E</b>		12. COUNTY OR PARISH <b>UINTAH</b>	
13. STATE <b>UT</b>		14. API NUMBER <b>43-047-33015</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5058 GR</b>		16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (OTHER) <input type="checkbox"/>		SUBSEQUENT REPORT OF:  WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (OTHER) <u>Weekly Status</u> <input checked="" type="checkbox"/>  (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 2/5/98 - 2/11/98**

Lost damaged DC, BS & bit in hole @ 4101'. Set 75 sk cmt plug @ 17.6 ppg .93 cf/sk yield 3918' - 4090'. Attempt to sidetrack. Drilled out cmt plug into old hole. Tag fish @ 4101'. Re-set cmt plug w/275 sx Class H+ (17.6 ppg .93 cf/sk yield) from 3356' - 4101'. Cmt plug in place @ 9:10 pm, 2/5/98. WOC for 48 hrs. Dress of cmt plug & sidetrack, drill ahead to 3755'.

18. I hereby certify that the foregoing is true and correct  
SIGNED Shannon Smith TITLE Engineering Secretary DATE 2/11/98

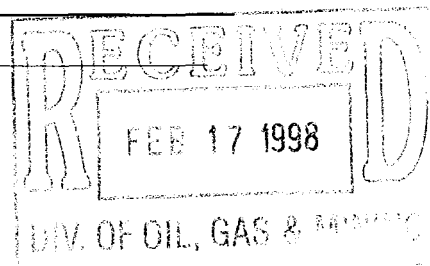
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\* See Instructions On Reverse Side



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

1. <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)  OIL <input type="checkbox"/> GAS <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-44305</b>	
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <b>N/A</b>	
3. ADDRESS OF OPERATOR <b>410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102</b>		7. UNIT AGREEMENT NAME <b>NA</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NE/NW 660 FNL 1980 FWL</b>		8. FARM OR LEASE NAME <b>ODEKIRK SPRING 3-36</b>	
14. API NUMBER <b>43-047-33015</b>		9. WELL NO. <b>3-36</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5058 GR</b>		10. FIELD AND POOL, OR WILDCAT <b>MONUMENT BUTTE</b>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NE/NW Section 36, T08S R17E</b>	
		12. COUNTY OR PARISH <b>UINTAH</b>	13. STATE <b>UT</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>Weekly Status</u>	<input checked="" type="checkbox"/>
(OTHER) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**WEEKLY STATUS REPORT FOR WEEK OF 2/12/98 - 2/18/98**

Drilled 7-7/8" hole w/Union, Rig #7 from 3755' - 6050'.

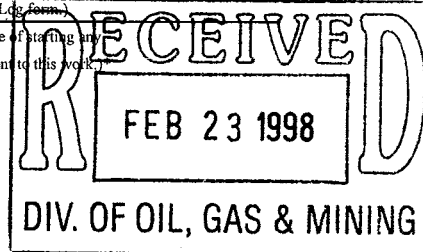
Run DIGL/SP/GR/CAL (6018' - 304') & DSN/SDL/GR (5990' - 3000'). Logger's TD 6022'. RD HLS. RU Lightning Casers. Run 5-1/2" GS, 1 jt 5-1/2" csg (42'), 5-1/2" FC, 140 jts 5-1/2", 15.5#, J-55, LT & C csg (6001'). Csg landed @ 6011'. RD Casers. RU Halliburton. C&C. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/300 sx Hibond 65 Modified (11.0 ppg 3.0 cf/sk yield) & tailed w/350 sx Thixotropic & 10% Calseal (14.2 ppg 1.59 cf/sk yield). POB w/2300 psi @ 7:00 pm, 2/14/98. Good returns until 25 bbls from plug, then had 25-50% variable returns. No dye to sfc. RD Halliburton. ND BOP's. Set slips w/80,000#. Dump mud tanks. Rig released @ 9:00 pm, 2/14/98. RDMOL

18. I hereby certify that the foregoing is true and correct  
SIGNED Shannon Smith TITLE Engineering Secretary DATE 2/19/98

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



OPERATOR Inland Production Company  
ADDRESS 475 17th St., Suite 1500  
Denver, CO 80202

OPERATOR ACCT. NO. W5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12299	43-013-31826	PARLETTE DRAW 8-22-8-17	SE/NE	22	8S	17E	Duchesne	1/11/98	1/11/98
WELL 1 COMMENTS: Spud well w/Union, Rig #7 @ 12:00 am 1/11/98. Entities added 3398 Lic											
B	99999	11492	43-013-31889	JONAH 8-7	SE/NE	7	4S	17E	Duchesne	1/13/98	1/13/98
WELL 2 COMMENTS: Spud well w/zcm Drilling @ 1:40 pm 1/13/98. Jonah Unit											
B	99999	11492	43-013-31888	JONAH 7-7	SE/NE	7	4S	17E	Duchesne	1/20/98	1/20/98
WELL 3 COMMENTS: Spud well w/zcm Drilling @ 11:30 am, 1/20/98. Jonah Unit											
A	99999	12300	43-013-31813	PARLETTE DRAW 9-22-8-17	SE/NE	22	8S	17E	Duchesne	1/21/98	1/21/98
WELL 4 COMMENTS: Spud well w/Union, Rig #7 @ 2:00 pm. 1/21/98											
B	99999	12187	43-013-31886	HAWKEYE 14-23-8-16	SE/SW	23	8S	16E	Duchesne	1/23/98	1/23/98
WELL 5 COMMENTS: Spud well w/zcm drilling @ 3:00 pm, 1/23/98. Hawkeye Unit											

- FROM CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Shannon Smith  
Signature  
Engineering Technician  
Title  
Date  
Phone No. 303, 376-8107

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ACTIVITY ACTION FORM - FORM 6

OPERATOR Inland Production Company

OPERATOR ACCT. NO. N5160

ADDRESS 475 17th St., Suite 1500

Denver, CO 80202

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SE	TP	RG	COUNTY		
B	99999	12187	43-013-3984	HAWKEYE 9-23-8-16	NE/SE	23	8S	16E	Duchesne	1/26/98	1/26/98
LL 1 COMMENTS: Spud well w/ ZCM Drilling @ 12:05 PM, 1/26/98. Unit was added 3-3-98. <u>See HAWKEYE UNIT</u>											
A	99999	12301	43-013-3941	S. PLEASANT VALLEY 11-15-15	NE/SW	15	9S	17E	Duchesne	1/26/98	1/26/98
LL 2 COMMENTS: Spud well w/ Union, Rig #17 @ 4:30 PM, 1/26/98.											
A	99999	12302	43-047-3245	ODEKREE SPRING 3-36	NE/NW	36	8S	17E	Uintah	1/30/98	1/30/98
LL 3 COMMENTS: Spud well w/ Union, Rig #7 1/30/98											
B	99999	12187	43-013-3985	HAWKEYE 10-23-8-16	NW/SE	23	8S	16E	Duchesne	2/4/98	2/4/98
LL 4 COMMENTS: Spud well w/ ZCM Drilling @ 7:30 PM, 2/4/98. <u>HAWKEYE UNIT</u>											
A	99999	12303	43-013-3942	S. Pleasant Valley 15-15	SW/SE	15	9S	17E	Duchesne	2/5/98	2/5/98
LL 5 COMMENTS: Spud well w/ Union, Rig #17 @ 1:00 PM, 2/5/98.											

OPTIONAL CONES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Shannon Smith  
Signature

Engineering Technician

Title Date

Phone No. 303, 376-8107

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

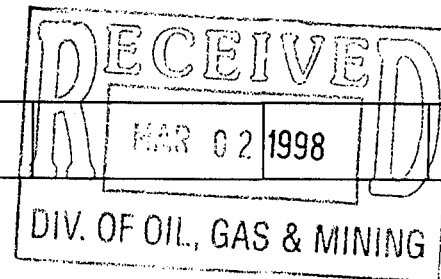
OPERATOR Coastal Oil & Gas Corporation

OPERATOR ACCT. NO. N 0230

ADDRESS P.O. Box 749

Denver, CO 80201-0749

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	02900	43-047-32999	CIGE #228-15-10-21	SWNE	15	10S	21E	Uintah	2/25/98	2/25/98
WELL 1 COMMENTS: (A-CIGE) Entity added 3-3-98. (Natural Buttes Unit/Wsmvd P.A.)											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											



ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

*Sheila Bremer*

Signature Sheila Bremer

Environmental/Safety Analyst 2/26/98

Title

Date

Phone No. (303) 573-4455

Farm 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

**Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals**

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. Cooks Fork Spring # 3-36-3-17
2. Name of Operator Inland Production Company (303) 292-0900		9. API Well No. 43-047-33015
3. Address and Telephone No. 410 17th Street, Suite 700, Denver, CO 80202		10. Field and Pool, or Reservoir, Area Monument Butte
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NE1/NW Section 36-T8S-R17E  660' FNL and 1980' FWL		11. County or Parish, State Uintah, Utah
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION  <input type="checkbox"/> Notice of Intent  <input checked="" type="checkbox"/> Subsequent Report  <input type="checkbox"/> Final Abandonment Notice	TYPE OF ACTION  <input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Well Name Change</u>	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Check Report results of Multiple Completion or Completion or Recompletion Report and Log in)</small>
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work, if well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)		

Inland Production Company requests approval to change the well name from Odekirk Spring #3-36 to Odekirk Spring #3-36-8-17.

14. I hereby certify that the foregoing is true and correct

Signed Debbie Knight Title Permitting Specialist Date 3-25-98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any: \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

Recieved Time Mar: 4, 10:28AM

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <div style="text-align: center; font-weight: bold;">ML-44305</div>	
<b>2. NAME OF OPERATOR</b> <div style="text-align: center;">INLAND PRODUCTION COMPANY</div>		<b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b>  <div style="text-align: center;">N/A</div>	
<b>3. ADDRESS OF OPERATOR</b> <div style="text-align: center;">410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102</div>		<b>7. UNIT AGREEMENT NAME</b>  <div style="text-align: center;">NA</div>	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <div style="display: flex; justify-content: space-around;"> <span>NE/NW</span> <span>660 FNL 1980 FWL</span> </div>		<b>8. FARM OR LEASE NAME</b> <div style="text-align: center;">ODEKIRK SPRING</div>	
<b>14. API NUMBER</b> <div style="text-align: center;">43-047-33015</div>		<b>9. WELL NO.</b>  <div style="text-align: center;">3-36-8-17</div>	
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <div style="text-align: center;">5058 GR</div>		<b>10. FIELD AND POOL, OR WILDCAT</b>  <div style="text-align: center;">MONUMENT BUTTE</div>	
<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <div style="text-align: center;">NE/NW Section 36, T08S R17E</div>		<b>12. COUNTY OR PARISH</b> <div style="text-align: center;">UINTAH</div>	
<b>13. STATE</b> <div style="text-align: center;">UT</div>		<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>	

<b>NOTICE OF INTENTION TO:</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           TEST WATER SHUT-OFF <input type="checkbox"/>            FRACTURE TREAT <input type="checkbox"/>            SHOOT OR ACIDIZE <input type="checkbox"/>            REPAIR WELL <input type="checkbox"/>            (OTHER) <input type="checkbox"/> </div> <div style="width: 45%;">           PULL OR ALTER CASING <input type="checkbox"/>            MULTIPLE COMPLETE <input type="checkbox"/>            ABANDON* <input type="checkbox"/>              <input type="checkbox"/>              <input type="checkbox"/> </div> </div>	<b>SUBSEQUENT REPORT OF:</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           WATER SHUT-OFF <input type="checkbox"/>            FRACTURE TREATMENT <input type="checkbox"/>            SHOOTING OR ACIDIZING <input type="checkbox"/>            (OTHER) <input type="checkbox"/> </div> <div style="width: 45%;">           REPAIRING WELL <input type="checkbox"/>            ALTERING CASING <input type="checkbox"/>            ABANDONMENT* <input type="checkbox"/>              <input checked="" type="checkbox"/> </div> </div> <div style="text-align: center; margin-top: 5px;">       Weekly Status <input checked="" type="checkbox"/> </div> <p style="font-size: small; text-align: center;">(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p>
---	---

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 4/9/98 - 4/16/98**

Perf CP sds @ 5850-53', 5872-78', 5892-95', 5912-16' & 5945-48'.  
 Perf LDC sds @ 5669-86', 5691-5701' & 5704-13'.  
 Perf B sds @ 5268-76'.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Shannon Smith</u>	TITLE <u>Engineering Secretary</u>	DATE <u>4/17/98</u>
-----------------------------	------------------------------------	---------------------

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

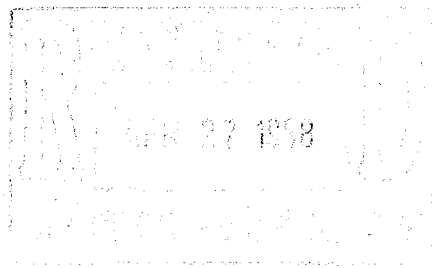
<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <b>ML-44305</b>	
<b>2. NAME OF OPERATOR</b> <b>INLAND PRODUCTION COMPANY</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b>  N/A	
<b>3. ADDRESS OF OPERATOR</b> <b>410 17TH STREET, SUITE 700, DENVER, COLORADO 80202</b> <b>(303) 893-0102</b>		<b>7. UNIT AGREEMENT NAME</b>  NA	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>NE/NW 660 FNL 1980 FWL</b>		<b>8. FARM OR LEASE NAME</b> <b>ODEKIRK SPRING</b>	
<b>14. API NUMBER</b> <b>43-047-33015</b>		<b>9. WELL NO.</b> <b>3-36-8-17</b>	
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <b>5058 GR</b>		<b>10. FIELD AND POOL, OR WILDCAT</b>  MONUMENT BUTTE	
<b>12. COUNTY OR PARISH</b> <b>UINTAH</b>		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <b>NE/NW Section 36, T08S R17E</b>	
<b>13. STATE</b> <b>UT</b>			

<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>	(OTHER) <u>Weekly Status</u>	<input checked="" type="checkbox"/>
(OTHER) <input type="checkbox"/>	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 4/16/98 - 4/22/98**

Perf D/C sds @ 4982-86', 5025-36', 5040-44' & 5117-19'.  
Swab well. Trip production tbg.  
PLACE WELL ON PRODUCTION @ 1:00 PM, 4/20/98.



<b>18. I hereby certify that the foregoing is true and correct</b>			
SIGNED <u>Shannon Smith</u>	TITLE <u>Engineering Secretary</u>	DATE <u>4/23/98</u>	

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

## STATE OF UTAH

## OIL &amp; GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. ML-44305	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
2. NAME OF OPERATOR Inland Production Company		7. UNIT AGREEMENT NAME _____	
3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 (435) 789-1866		8. FARM OR LEASE NAME Odekirk Spring	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NE/NW 660' FNL & 1980' FWL At top prod. interval reported below At total depth		9. WELL NO. #3-36	
14. PERMIT NO. 43-047-33015		12. COUNTY OR PARISH Uintah	
DATE ISSUED 12/18/97		13. STATE UT	
15. DATE SPUDDED 11/30/98	16. DATE T.D. REACHED 1/13/98	17. DATE COMPL. (Ready to prod.) 4/20/98	18. ELEVATIONS (DF, R&B, RT, GR, ETC.)* 5058.8' GR
19. ELEV. CASINGHEAD	20. TOTAL DEPTH, MD & TVD 6050'		
21. PLUG. BACK T.D., MD & TVD 5966'	22. IF MULTIPLE COMPL. HOW MANY*	23. INTERVALS DRILLED BY →	ROTARY TOOLS X
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Green River - Refer to Item #31			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN DIGL/SP/GR/CAL - DSN/SNL/GR - CBL 7-20-98			27. WAS WELL CORED No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE
8 5/8	24#	303'	12 1/4
5 1/2	15.5#	6011'	7 7/8
CEMENTING RECORD		AMOUNT PULLED	
140 sx Prem + w/ 2% CC & #/sk flocele			
300 sx Hibond 65 mod followed by			
350 sx Thixo w/ 10% Calseal			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 7/8	EOT@ 5895'	TA @ 5731'	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
CP 5850'-53', 5872'-78', 5892'-95', 5912'-16', 5945'-48'		DEPTH INTERVAL (MD)	
LDC 5669'-86', 5691'-5701', 5704'-13'		AMOUNT AND KIND OF MATERIAL USED	
B 5268'-76'		Refer to Item #37	
D/C 4982'-86', 5025'-36', 5040'-44'			
33. PRODUCTION			
DATE FIRST PRODUCTION 4/20/98	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 2 1/2" X 1 1/2" X 16' RHAC pump - pumping		WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 10 Day Avg 5/98	HOURS TESTED N/A	CHOKES SIZE N/A	PROD'N. FOR TEST PERIOD 86
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. 155
			GAS—MCF. 5
			WATER—BBL. 1.8
			GAS-OIL RATIO
			WATER—BBL.
			OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold & Used for Fuel			TEST WITNESSED BY
35. LIST OF ATTACHMENTS Logs in Item #26			
36. I hereby certify that the foregoing and attached information is true and correct as determined from all available records			
SIGNED Cheryl Cameron		TITLE Regulatory Specialist	
		DATE 7/8/98	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Secks (cement)": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

## 37. SUMMARY OF POROSITY ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL WELL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUMULON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38.	GEOLOGIC MARKERS
Garden Gulch	4012'		Item #32.		
Garden Gulch 2	4305'		Perf CP sd 5850'-53', 5872'-78', 5892'-95', 5912'-16', 5945'-48'		
Point 3	4565'		Frac w/ 111,300# 20/40 sd in 562 bbls Delta		
X Marker	4786'				
Y Marker	4824'		Perf IDC sd 5669'-86', 5691'-5701', 5704'-13'		
Douglas Creek	4949'		Frac w/ 111,300# 20/40 sd in 551 bbls Delta		
Bi-Carb	5190'				
B-Lime	5334'		Perf B sd 5268'-76'		
Little Peak	5796'		Frac w/ 104,400# 20/40 sd in 527 bbls Delta		
Basal Carb	NDE		Perf D/C sd 4982'-86', 5025'-36', 5040'-44', 5117'-19'		
			Frac w/ 137,200# 20/40 sd in 625 bbls Delta		

NAME

TOP

MEAS. DEPTH

TRUE VERT. DEPTH

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**660 FNL 1980 FWL NE/NW Section 36, T08S R17E**

5. Lease Designation and Serial No.

**ML-44305**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**ODEKIRK SPRING 3-36-8-17**

9. API Well No.

**43-047-33015**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

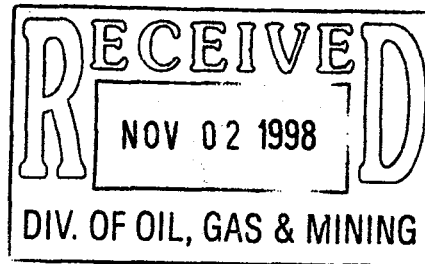
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Site Security

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the site security diagram for the above referenced well.



14. I hereby certify that the foregoing is true and correct

Signed

Debbie E. Knight Title

Manager, Regulatory Compliance

Date

10/30/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

# Inland Production Company Site Facility Diagram

Odekirk 3-36

NE/NW Sec. 36, T8S, 17E

Uintah County

May 12, 1998

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

## Production Phase:

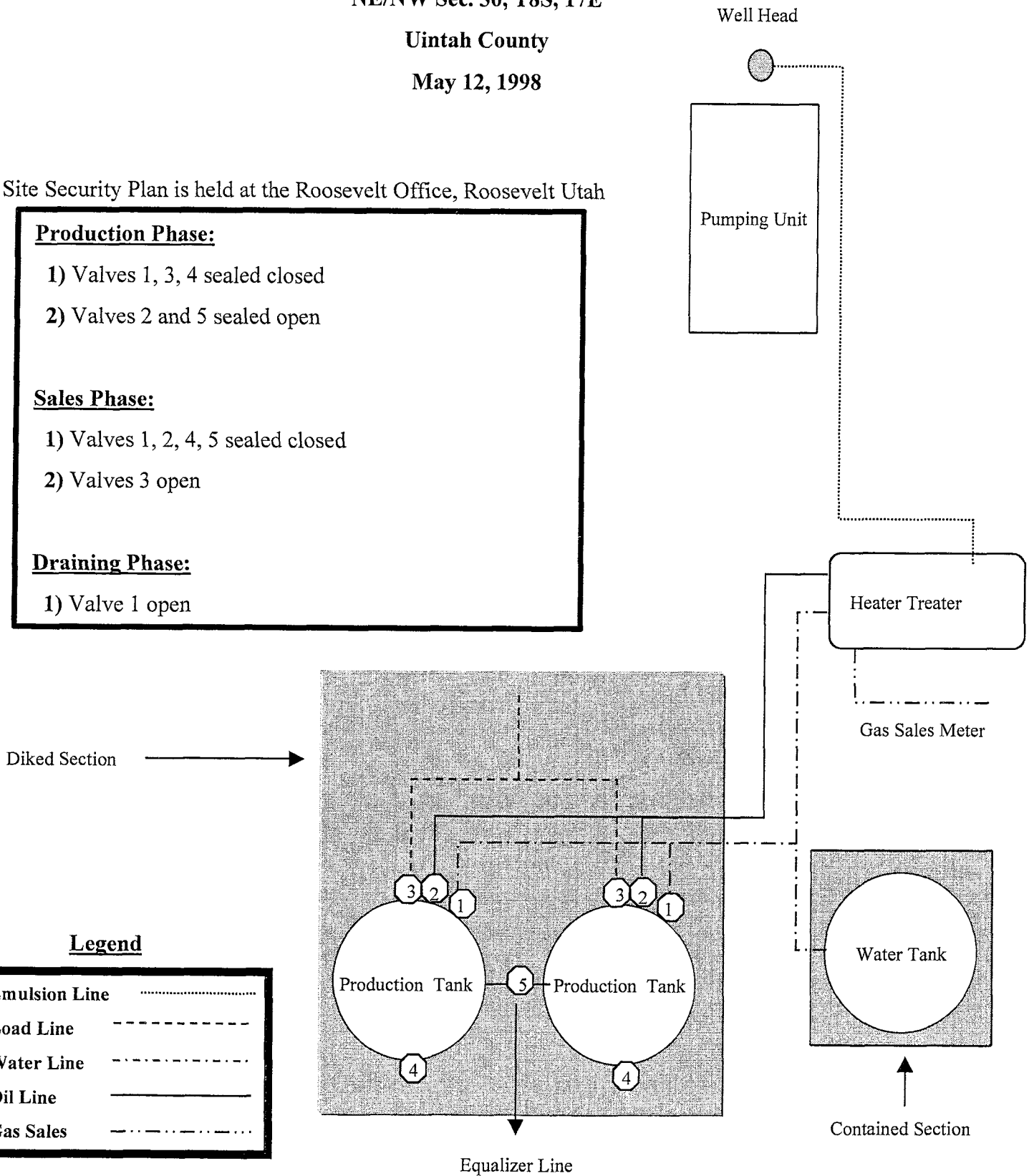
- 1) Valves 1, 3, 4 sealed closed
- 2) Valves 2 and 5 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5 sealed closed
- 2) Valves 3 open

## Draining Phase:

- 1) Valve 1 open



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company  
ADDRESS 410 17th Street, Suite 700  
Denver, Colorado 80202

Well Name and number: Odekirk Spring State 3-36-8-17  
Field or Unit name: Monument Butte Field *Odekirk Spring U* Lease No. ML-44305  
Well Location: QQ NE/NW section 36 township 8S range 17E county Uintah

Is this application for expansion of an existing project? ..... Yes [ ☒ ] No [ ☐ ]

Will the proposed well be used for: Enhanced Recovery? ..... Yes [ ☒ ] No [ ☐ ]  
Disposal? ..... Yes [ ☐ ] No [ ☒ ]  
Storage? ..... Yes [ ☐ ] No [ ☒ ]

Is this application for a new well to be drilled? ..... Yes [ ☐ ] No [ ☒ ]

If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes [ ☐ ] No [ ☒ ]

Date of test: Will be done at time of conversion

API number: 43-047-33015

Proposed injection interval: from 4982' to 5948'  
Proposed maximum injection: rate 500 bpd pressure 1671 psig  
Proposed injection zone contains [ ☒ ] oil, [ ☐ ] gas, and/or [ ☐ ] fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments A through R

I certify that this report is true and complete to the best of my knowledge.

Name: Joyce McGough Signature *Joyce McGough*  
Title Regulatory Specialist Date Nov. 13, 2000  
Phone No. (303) 893-0102

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_

Approval Date \_\_\_\_\_

Comments:

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DIVISION OF  
OIL, GAS AND MINING



November 13, 2000

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

Re: Permit Application for Water Injection Well  
Odekirk Spring State #3-36-8-17  
Monument Butte Field, Odekirk Spring Unit, Lease #ML-44305  
Section 36-Township 8S-Range 17E  
Uintah County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Odekirk Spring State #3-36-8-17 from a producing oil well to a water injection well in the Odekirk Spring Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Joyce McGough or George Rooney at (303) 893-0102.

Sincerely,

Joyce McGough  
Regulatory Specialist

Enclosure

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**DIVISION OF  
OIL, GAS AND MINING**



November 13, 2000

Mr. Emmett Schmitz  
U.S. Environmental Protection Agency  
Region VIII  
999 18<sup>th</sup> Street, Suite 500  
Denver, Colorado 80202-2405

RE: Permit Application for Water Injection Well  
Odekirk Spring State #3-36-8-17  
Monument Butte Field, Odekirk Spring Unit, Lease #ML-44305  
Section 36-Township 8S-Range 17E  
Uintah County, Utah


Dear Mr. Schmitz:

Inland Production Company herein requests a permit to convert the Odekirk Spring #3-36 from a producing oil well to a water injection well.

Included with this application is a cement bond log for your convenience. As they are difficult to copy, however, I would very much appreciate its return.

I hope you find this application complete; however, if you have any questions or require additional information, please contact George Rooney at (303) 893-0102.

Sincerely,

  
Bill Pennington  
Chief Executive Officer

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OIL, GAS AND MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well

☒ Oil Well ☐ Gas well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 Seventeenth Street, Suite 700 Denver, CO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NE NW 660' fnl & 1980' fwl Sec. 36, T8S, R17E**

5. Lease Designation and Serial No.

**ML-44305**

6. If Indian, Allottee or Tribe Name

**NA**

7. If unit or CA, Agreement Designation

8. Well Name and No.

**Odekirk Spring State 3-36**

9. API Well No.

**43-013-33015**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Uintah County, UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed Joyce L. McGough Title Regulatory Specialist Date Nov. 13, 2000

(This space of Federal or State office use.)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or to any matter within its jurisdiction.

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**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**ODEKIRK SPRING STATE #3-36-8-17**  
**MONUMENT BUTTE (GREEN RIVER) FIELD**  
**LEASE #ML- 44305**  
**ODEKIRK SPRING UNIT**  
**NOVEMBER 13, 2000**

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Form  <b>4</b>  UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY <b>UNDERGROUND INJECTION CONTROL</b> <b>PERMIT APPLICATION</b> <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>										I. EPA ID NUMBER				
												T/A	C		
READ ATTACHED INSTRUCTIONS BEFORE STARTING FOR OFFICIAL USE ONLY															
Application Approved <small>mo day year</small>			Date Received <small>mo day year</small>			Permit/Well Number			Comments						
II. FACILITY NAME AND ADDRESS						III. OWNER/OPERATOR AND ADDRESS									
Facility Name <b>Odekirk Spring State #3-36</b>						Owner/Operator Name <b>Inland Production Company</b>									
Street Address <b>Section 36 - Township 8S - Range 17E</b>						Street Address <b>410 17th Street, Suite 700</b>									
City <b>Uintah County</b>				State <b>Utah</b>		Zip Code		City <b>Denver</b>			State <b>CO</b>		Zip Code <b>80202</b>		
IV. OWNERSHIP STATUS (Mark 'x')						V. SIC CODES									
A. Federal <input type="checkbox"/> B. State <input checked="" type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain) <input type="checkbox"/>															
VI. WELL STATUS (Mark 'x')															
<input checked="" type="checkbox"/> A. Operating		Date Started			<input checked="" type="checkbox"/> B. Modification/Conversion		C. Proposed								
		<small>mo</small> 1	<small>day</small> 30	<small>year</small> 98											
VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)															
<input checked="" type="checkbox"/> A. Individual			<input type="checkbox"/> B. Area			Number of Exist- ing wells <b>1</b>		Number of Pro- posed wells <b>1</b>		Name(s) of field(s) or project(s) <b>Odekirk Spring Unit</b>					
<b>Minor Modification</b>															
VIII. CLASS AND TYPE WELL (see reverse)															
A. Class(es) (enter codes(s)) <b>II</b>		B. Type(s) (enter codes(s)) <b>R</b>		C. If class is "other" or type is code 'x', explain <b>NA</b>				D. Number of wells per type (if area permit) <b>1</b>							
IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT						X. INDIAN LANDS (Mark 'x')									
C		A. Latitude			B. Longitude			Township and Range							
		<small>Deg</small>	<small>Min</small>	<small>Sec</small>	<small>Deg</small>	<small>Min</small>	<small>Sec</small>	<small>Twsp</small>	<small>Range</small>	<small>Sec</small>	<small>¼ Sec</small>	<small>Feet from</small>	<small>Line</small>	<small>Feet from</small>	<small>Line</small>
								<b>8S</b>	<b>17E</b>	<b>36</b>	<b>NENW</b>	<b>660</b>	<b>N</b>	<b>1980</b>	<b>W</b>
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
XI. ATTACHMENTS															
(Complete the following questions on a separate sheet(s) and number accordingly; see instructions) FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A -- U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.															
XII. CERTIFICATION															
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)															
A. Name and Title (Type or Print) <b>Bill Pennington / Chief Executive Officer</b>										B. Phone No. (Area Code and No.) <b>303-893-0102</b>					
C. Signature 										D. Date Signed <b>November 13, 2000</b>					

## WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down, move out.

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# Odekirk Spring #3-36-8-17

Spud Date: 1/30/98  
Put on Production: 4/20/98  
GL: 5059' KB: 5069'

Initial Production: 86 BOPD,  
155 MCFPD, 5 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (293')  
DEPTH LANDED: 303'(GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt, est 4 bbls cmt to surf.

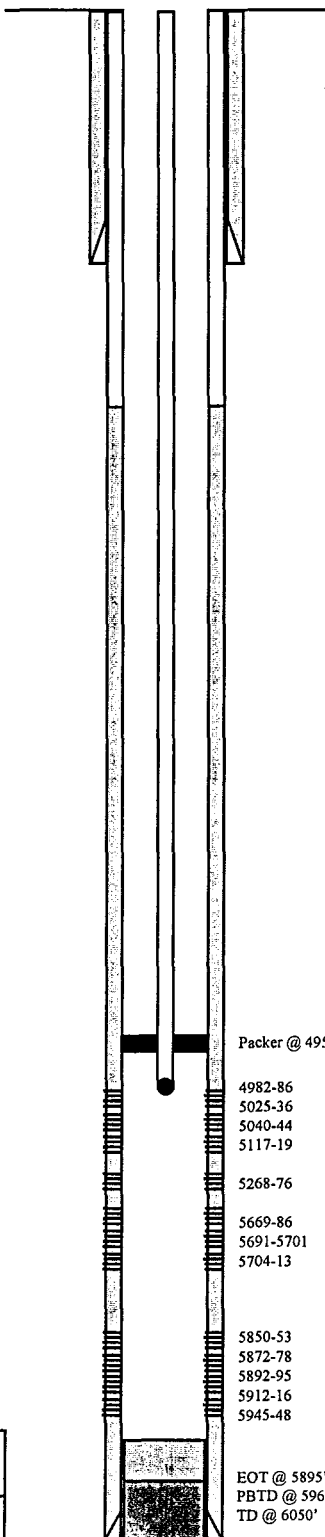
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6001')  
DEPTH LANDED: 6011'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sk Hibond mixed & 350 sxs thixotropic  
CEMENT TOP AT: 1415' CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: ? jts.  
PACKER: 4950'  
TOTAL STRING LENGTH: EOT @ ?'

## Proposed Injection Wellbore Diagram



## FRAC JOB

4/9/98 5850'-5948' Frac CP-1 & CP-2 sands as follows:  
111,300# 20/40 sand in 562 bbls Delta  
frac fluid. Perfs brokedown @ 2073 psi.  
Treated @ avg press of 1500 psi w/avg  
rate of 30 bpm. ISIP: 1685 psi, 5-min  
1521 psi. Flowback on 12/64" choke for  
4 hours and died.

4/11/98 5669'-5713' Frac LODC sand as follows:  
111,300# of 20/40 sand in 551 bbls Delta  
Frac fluid. Perfs brokedown @ 2606 psi.  
Treated @ avg press of 1700 psi w/avg  
rate of 28 bpm. ISIP-2192 psi, 5-min  
2075 psi. Flowback on 12/64" choke for 4  
hours and died.

4/14/98 5268'-5276' Frac B-1 sand as follows:  
104,400# 20/40 sand in 527 bbls Delta  
Frac fluid. Perfs brokedown @ 2045 psi.  
Treated @ avg press of 1635 psi w/avg  
rate of 26.2 bpm. ISIP: 2368 psi, 5-min  
2161 psi. Flowback on 12/64" choke for 4  
hours and died.

4/16/98 4982'-5119' Frac D-1, D-2 & C sands as follows:  
137,200# of 20/40 sand in 625 bbls  
Delta Frac fluid. Perfs brokedown @  
1599 psi @ 5 BPM. Treated @ avg press  
of 1970 psi w/avg rate of 35 bpm. ISIP-  
2156 psi, 5-min 1967 psi. Flowback on  
12/64" choke for 4 hours and died.

## PERFORATION RECORD

4/8/98	5850'-5853'	4 JSPF	12 holes
4/8/98	5872'-5878'	4 JSPF	24 holes
4/8/98	5892'-5895'	4 JSPF	12 holes
4/8/98	5912'-5916'	4 JSPF	16 holes
4/8/98	5945'-5948'	4 JSPF	12 holes
4/10/98	5669'-5686'	2 JSPF	36 holes
4/10/98	5691'-5701'	2 JSPF	20 holes
4/10/98	5704'-5712'	2 JSPF	18 holes
4/13/98	5268'-5276'	4 JSPF	32 holes
4/15/98	4982'-4986'	4 JSPF	16 holes
4/15/98	5025'-5036'	4 JSPF	44 holes
4/15/98	5040'-5044'	4 JSPF	16 holes
4/15/98	5117'-5119'	4 JSPF	8 holes



Inland Resources Inc.

Odekirk Spring #3-36-8-17

660' FNL 1980' FWL

NENW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33015; Lease #ML-44305

EOT @ 5895'  
PBTD @ 5966'  
TD @ 6050'

# Odekirk Spring #3-36-8-17

Spud Date: 1/30/98  
Put on Production: 4/20/98  
GL: 5059' KB: 5069'

Initial Production: 86 BOPD,  
155 MCFPD, 5 BWPD

## SURFACE CASING

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GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (293')  
DEPTH LANDED: 303'(GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt, est 4 bbls cmt to surf.

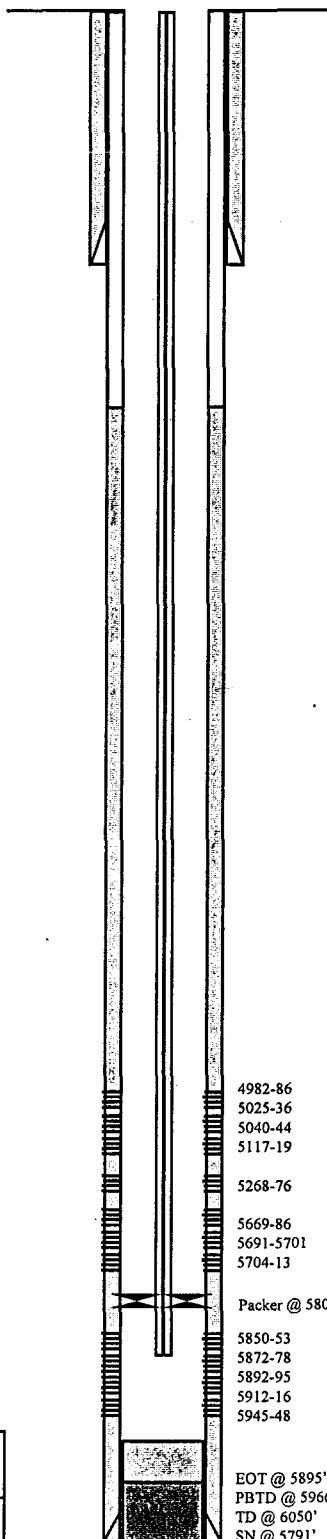
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6001')  
DEPTH LANDED: 6011'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sk Hibond mixed & 350 sxs thixotropic  
CEMENT TOP AT: 1415' CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 189 jts.  
TUBING ANCHOR: 5731'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5895'  
SN LANDED AT: 5791'

## Proposed Injection Wellbore Diagram



## FRAC JOB

4/9/98 5850'-5948' Frac CP-1 & CP-2 sands as follows:  
111,300# 20/40 sand in 562 bbls Delta  
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of 1970 psi w/avg rate of 35 bpm. ISIP-  
2156 psi, 5-min 1967 psi. Flowback on  
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4/15/98	4982'-4986'	4 JSPF	16 holes
4/15/98	5025'-5036'	4 JSPF	44 holes
4/15/98	5040'-5044'	4 JSPF	16 holes
4/15/98	5117'-5119'	4 JSPF	8 holes



Inland Resources Inc.

Odekirk Spring #3-36-8-17

660' FNL 1980' FWL

NENW Section 36-T8S-R17E

Utah Co, Utah

API #43-047-33015; Lease #ML-44305

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**ATTACHMENT A**  
**AREA OF REVIEW METHODS**

**Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of 1/4 mile from the well bore unless the use of an equation is approved in advance by the Director.**

The area of review shall be a fixed radius of 1/2 mile from the Odekirk Spring State #3-36-8-17. Inland Production Company has chosen to use a fixed radius of 1/2 mile to satisfy the requirements of both the EPA and the State of Utah.

Attachment A-1 One-half Mile Radius Map

Attachment A-2 Listing of Surface Owners

Attachment A-3 Certification for Surface Owner Notification

Attachment A-4 Well Location Plat

Attachment A-5 Name(s) and Address(s) of Surface Owners

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Attachment A-2  
Page 1

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#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 24: L1, E/2SE/4 Section 25: E/2E/2, SW/4SW/4 Section 26: SE/4SE/4	UTU-74870 HBP	Inland Production Company	(Surface Rights) USA
2	<u>Township 8 South, Range 17 East</u> Section 36: ALL	ML-44305 HBP	Inland Production Company Yates Petroleum Corporation Abo Petroleum Corporation Yates Drilling Company Myco Industries, Inc.	(Surface Rights) State of Utah
3.	<u>Township 8 South, Range 17 East</u> Section 25: W/2E/2, NW/4, N/2SW/4 SE/4SW/4 Section 26: N/2NE/4, NE/4SE/4	UTU-67845 HBP	Inland Production Company	(Surface Rights) USA

Attachment A-2  
Page 2

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#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
4.	<u>Township 8 South Range 17 East</u> Section 35: All	UTU-40026 HBP	Inland Production Company	(Surface Rights) USA

3-36-8-17inj

ATTACHMENT A-3

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

Re: Application for Approval of Class II Injection Well  
Odekirk Spring State #3-36-8-17

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: \_\_\_\_\_

*Bill Pennington*  
Inland Production Company  
Bill Pennington  
Chief Executive Officer

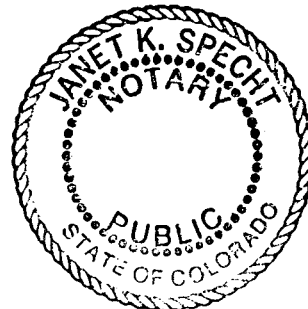
Sworn to and subscribed before me this 14 day of November, 2000.

Notary Public in and for the State of Colorado: \_\_\_\_\_

*Janet K. Specht*

My commission expires: \_\_\_\_\_

7/16/01



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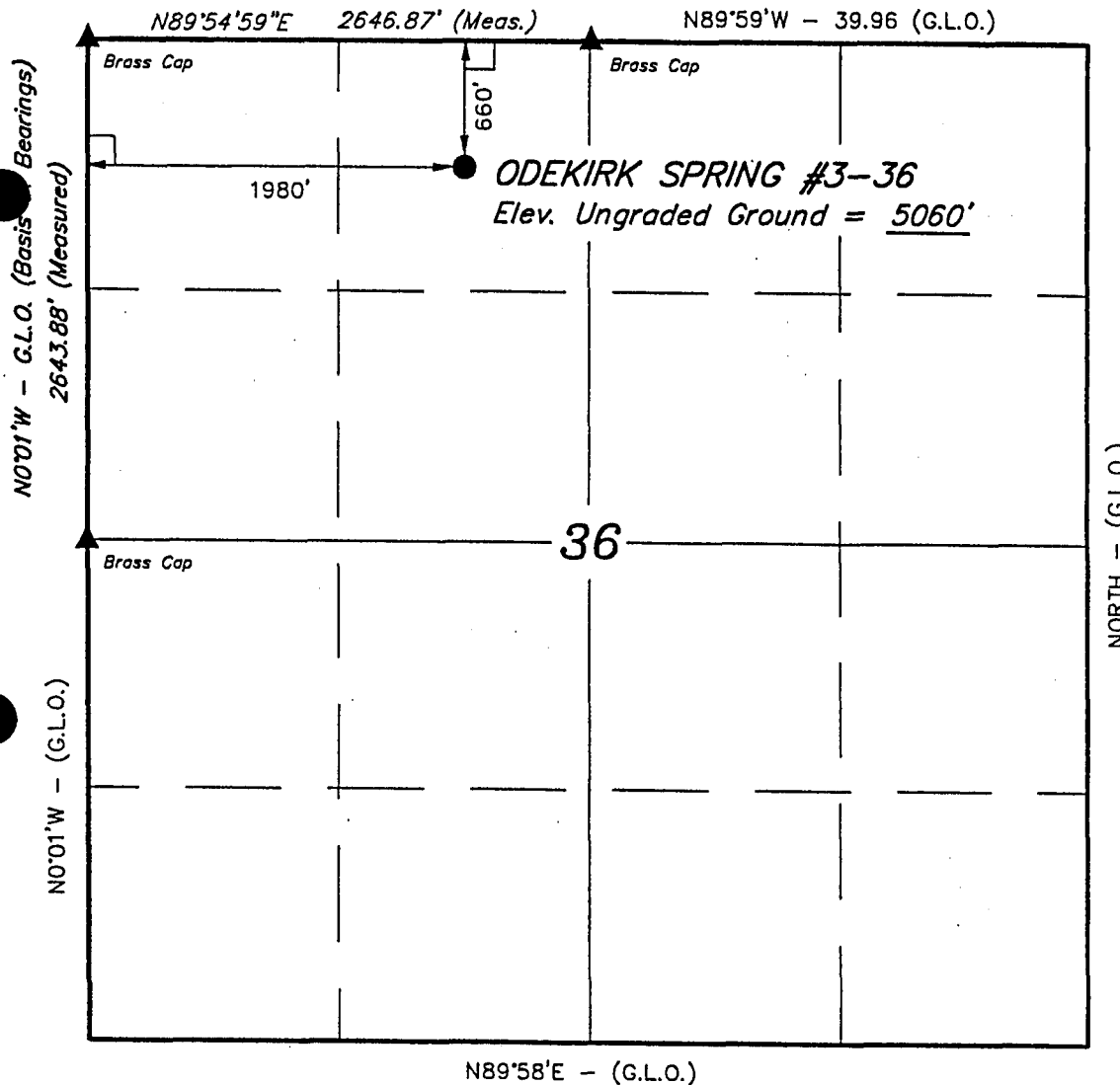
**T8S, R17E, S.L.B.&M.**

**INLAND PRODUCTION CO.**

Well location, ODEKIRK SPRING #3-36, located as shown in the NE 1/4 NW 1/4 of Section 36, T8S, R17E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 36, T8S, R17E, S.L.B.&M. TAKEN FROM THE PARIETTE DRAW SW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5034 FEET.



NORTH - (G.L.O.)

**LEGEND:**

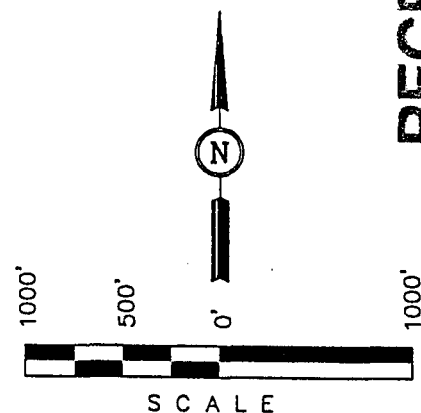
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

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Attachment #4



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Dyer*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 101519  
 STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-6-97	DATE DRAWN: 10-9-97
PARTY B.B. D.R. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE INLAND PRODUCTION CO.	

**ATTACHMENT A-5**

**Names and Addresses of Surface Owners**

1. USA

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**ATTACHMENT B**

**MAPS OF WELLS/AREA AND AREA OF REVIEW**

**Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review.**

There are no hazardous waste, treatment, storage or disposal facilities within a one-mile radius of the property boundaries.

Attachment B-1 Area of Review and Existing/Proposed Waterlines


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# DIVISION OF OIL, GAS AND MINING

**N**

 480 17<sup>th</sup> Street, Suite 310  
Darien, Ontario L3R 9V7  
Phone: (905) 609-3100

**UFT A BASIN**  
Boutique de Utensils Culinaires, UFT

Date: 12/6/2000 Mark Aday

**ATTACHMENT C**  
**CORRECTIVE ACTION PLAN AND WELL DATA**

**Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in Attachment B, which penetrate the proposed injection zone.**

Step rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under the fracture pressure.

Attachment C-1	Wellbore Diagram – Odekirk Spring State #2-36-8-17
Attachment C-2	Wellbore Diagram – Odekirk Spring State #4-36-8-17
Attachment C-3	Wellbore Diagram – Odekirk Spring State #5-36-8-17
Attachment C-4	Wellbore Diagram – Odekirk Spring State #6-36-8-17
Attachment C-5	Wellbore Diagram – Odekirk Spring State #7-36-8-17
Attachment C-6	Wellbore Diagram – Odekirk Spring State #11-36-8-17
Attachment C-7	Wellbore Diagram – Balcron Monument Fed #23-25-8-17
Attachment C-8	Wellbore Diagram – Balcron Monument Fed #24-25-8-17
Attachment C-9	Wellbore Diagram – Balcron Monument Fed #34-25-8-17

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## Odekirk Spring #2-36-8-17

Spud Date: 6-8-98  
Put on Production: 7-8-98  
GL: 5039.9' KB: ?

Initial Production: 130 BOPD,  
54 MCFPD, 2 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (299')  
DEPTH LANDED: 309' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Premium cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (5979')  
DEPTH LANDED: 5988'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 250 sx Premium mixed & 330 sx Class G  
CEMENT TOP AT:

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 184 jts.  
TUBING ANCHOR: 5717'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5843'  
SN LANDED AT: 5749'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-11/2" wt rods, 4-3/4" scraped, 125-3/4" plain rods, 95-3/4" scraped, 1-2", 1-4", 1-6", 1-8" x 3/4" pony  
PUMP SIZE: 2-1/2 x 1-1/2 x 16 RHAC pump  
STROKE LENGTH: 100"  
PUMP SPEED, SPM: 5.5 SPM  
LOGS: DIGL/SP/GR/CAL 5986'-307'  
CN/CD/GR 5966'-3000'

FRAC JOB

6-27-98 5805'-5907' **Frac CP sands as follows:**  
111,000# 20/40 sand in 697 bbls Viking  
frac fluid. Perfs brokedown @ 2710 psi.  
Treated @ avg press of 1210 psi w/avg  
rate of 32.6 bpm. ISIP: 1500 psi, 5-min  
1360 psi. Flowback on 12/64" choke for  
4.5 hours and died.

6-30-98 5506'-5644' **Frac LDC sand as follows:**  
128,040# of 20/40 sand in 605 bbls Viking  
Frac fluid. Perfs brokedown @ 2200 psi.  
Treated @ avg press of 1700 psi w/avg  
rate of 35.6 bpm. ISIP: 1800 psi, 5-min  
1575 psi. Flowback on 12/64" choke for 3  
hours and died.

7-1-98 5388'-5427' **Frac A sand as follows:**  
105,020# 20/40 sand in 539 bbls Viking  
Frac fluid. Perfs brokedown @ 2400 psi.  
Treated @ avg press of 1500 psi w/avg  
rate of 28.5 bpm. ISIP: 1800 psi, 5-min  
1666 psi. Flowback on 12/64" choke for  
3 hours and died.

7-3-98 5208'-5244' **Frac B sands as follows:**  
89,120# of 20/40 sand in 486 bbls Viking  
Frac fluid. Perfs brokedown @ 3021 psi.  
Treated @ avg press of 1603 psi w/avg rate of  
26.4 bpm. ISIP: 1640 psi, 5-min 1476 psi.  
Flowback on 12/64" choke for 3 hours and  
died.

PERFORATION RECORD

6-26-98	5805'-5809'	2 JSPF	8 holes
6-26-98	5819'-5821'	2 JSPF	6 holes
6-26-98	5830'-5833'	2 JSPF	6 holes
6-26-98	5842'-5848'	2 JSPF	12 holes
6-26-98	5862'-5868'	2 JSPF	12 holes
6-26-98	5902'-5907'	2 JSPF	12 holes
6-28-98	5506'-5520'	2 JSPF	28 holes
6-28-98	5524'-5527'	2 JSPF	12 holes
6-28-98	5571'-5578'	2 JSPF	14 holes
6-28-98	5627'-5644'	2 JSPF	34 holes
7-1-98	5388'-5409'	2 JSPF	42 holes
7-1-98	5415'-5427'	2 JSPF	24 holes
7-2-98	5208'-5217'	2 JSPF	18 holes
7-2-98	5220'-5226'	2 JSPF	12 holes
7-2-98	5229'-5232'	2 JSPF	6 holes
7-2-98	5240'-5244'	2 JSPF	8 holes

SN @ 5749'  
EOT @ 5843'  
PBD @ 5938'  
TD @ 6000'

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Inland Resources Inc.

Odekirk Spring #2-36-8-17

781' FNL 2062' FEL

NWNE Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33079; Lease #ML-44305

## Monument State #4-36-8-17

Spud Date: 3-19-97  
Put on Production: 4-28-97  
GL: 5072' KB: ?

Initial Production: 48.3 BOPD,  
18 MCFPD, 2 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 5 jts. (253.25')  
DEPTH LANDED: 263.15' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class G cmt, est 8 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (5947')  
DEPTH LANDED: 5957'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 135 sx Premium Lite & 390 sx Class 50/50 Poz  
CEMENT TOP AT:

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 187 jts.  
TUBING ANCHOR: 4525'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT 5801'  
SN LANDED AT: 5767'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' polished rod.  
SUCKER RODS: 228-3/4"x25' D-61 plain  
PUMP SIZE: 2-1/2 x 1-1/2 x 16' RWAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4 SPM  
LOGS: DLL/GR/CAL ZDL/CN/GR CBL

FRAC JOB

4-3-97 5693'-5723' Frac sands as follows:  
25,200# 20/40 sand and 56,500# 16/30 sand  
with 25,074 gals 2% KCL gelled water.  
Treated @ avg press of 2100 psi w/avg rate of  
33.9 bpm. ISIP: 2400 psi, 5-min 2050 psi.

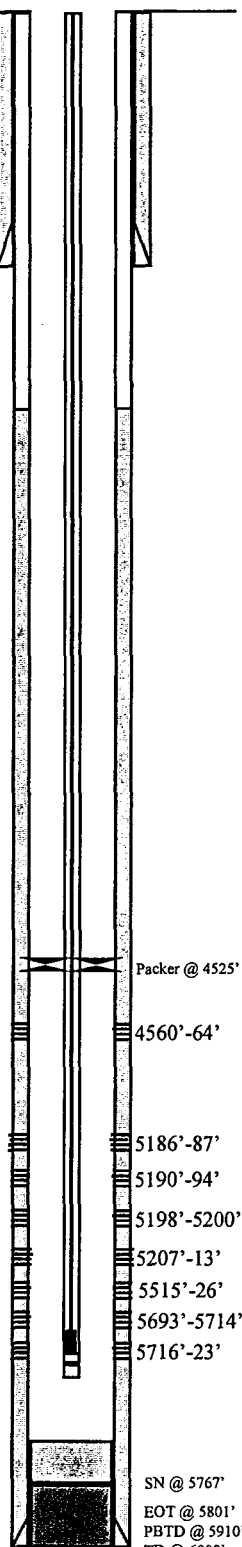
4-8-97 5465'-5526' Frac sand as follows:  
18,900# of 20/40 sand and 48,500# 16/30  
sand with 20,790 gals 2% KCL gelled water.  
Treated @ avg press of 1950 psi w/avg rate of  
25.2 bpm. ISIP-2430 psi, 5-min 1700 psi.

4-11-97 5186'-5213' Frac sand as follows:  
13,500# 20/40 sand and 31,500# 16/30 sand  
with 16,926 gals 2% KCL gelled water.  
Treated with avg press of 2300 psi w/avg rate  
of 25.5 BPM. ISIP-3600 psi, 5 min 2050 psi.

4-15-97 4560'-4564' Frac sand as follows:  
12,600# 16/30 sand with 8904 gals 2% KCL  
gelled water. Treated w/avg press of 2630  
w/avg rate of 20.6 BPM. ISIP-2340 psi, 5  
min 2120 psi.

PERFORATION RECORD

4-2-97	5693'-5714'	4 JSPF	84 holes
4-2-97	5716'-5723'	4 JSPF	20 holes
4-7-97	5515'-5526'	4 JSPF	44 holes
4-10-97	5186'-5187'	4 JSPF	4 holes
4-10-97	5190'-5194'	4 JSPF	16 holes
4-10-97	5198'-5200'	4 JSPF	8 holes
4-10-97	5207'-5213'	4 JSPF	24 holes
4-14-97	4560'-4564'	4 JSPF	16 holes



Inland Resources Inc.

Monument State #4-36-8-17

600 FNL 660 FWL

NWNW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-32764; Lease #ML-44555

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## Odekirk Spring #5-36-8-17

Spud Date: 2-16-98  
Put on Production: 7-2-98  
GL: 5012' KB: 5022'

Initial Production: 35 BOPD,  
38 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (294')  
DEPTH LANDED: 304' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt, est. 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6028')  
DEPTH LANDED: 6038'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sx Hibond & 320 sx Thixotropic  
CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 184 jts.  
TUBING ANCHOR: 5738'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5897'  
SN LANDED AT: 5803'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-11/2" wt rods, 4-3/4" scraped, 128-3/4" plain rods, 95-3/4" scraped, 1-8", 1-6", 1-2"x3/4" pony  
PUMP SIZE: 2-1/2 x 1-1/2 x 16 RHAC pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6.5 SPM  
LOGS: DIGL/SP/GR/CAL 6042'-304'  
CN/CD/GR 6019'-3000'

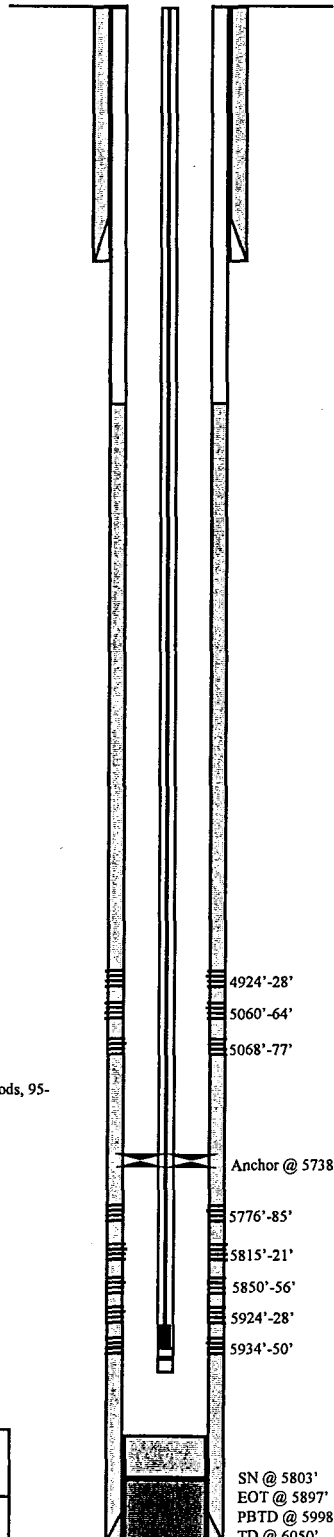
FRAC JOB

6-27-98 5776'-5950'

Frac CP sands as follows:  
140,594# 20/40 sand in 853 bbls Viking  
frac fluid. Perfs brokedown @ 1970 psi.  
Treated @ avg press of 1755 psi w/avg  
rate of 36.1 bpm. ISIP: 1900 psi, 5-min  
1500 psi. Flowback on 12/64" choke for  
5 hours and died.

6-30-98 4924'-5077'

Frac D/C sand as follows:  
119,200# of 20/40 sand in 612 bbls Viking  
Frac fluid. Perfs brokedown @ 3200 psi.  
Treated @ avg press of 1600 psi w/avg  
rate of 32.5 bpm. ISIP-1950 psi, 5-min  
1800 psi. Flowback on 12/64" choke for 4  
hours and died.

PERFORATION RECORD

6-26-98	5776'-5785'	2 JSPF	18 holes
6-26-98	5815'-5821'	2 JSPF	12 holes
6-26-98	5850'-5856'	2 JSPF	12 holes
6-26-98	5924'-5928'	2 JSPF	8 holes
6-26-98	5934'-5950'	2 JSPF	32 holes
6-28-98	4924'-4928'	4 JSPF	16 holes
6-28-98	5060'-5064'	4 JSPF	16 holes
6-28-98	5068'-5077'	4 JSPF	44 holes



Inland Resources Inc.

Odekirk Spring #5-36-8-17

1949 FNL 732 FWL

SWNW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33014; Lease #ML-44305

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## Odekirk Spring #6-36-8-17

Spud Date: 2/23/98  
Put on Production: 4/22/98  
GL: 5000' KB: 5010'

Initial Production: 86 BOPD,  
115 MCFPD, 5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (?)  
DEPTH LANDED: 289' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt,

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 139 jts. (5970')  
DEPTH LANDED: 5980'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 340 sk Hibond mixed & 360 sxs thixotropic  
CEMENT TOP AT: 623' CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / M-50 tbg.  
NO. OF JOINTS: 187 jts.  
TUBING ANCHOR: 5708'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5842'  
SN LANDED AT: 5742'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-3/4" scraped, 126-3/4" plain rods, 95-3/4" scraped  
PUMP SIZE: 2-1/2 x 1-1/2 x 16 RHAC pump  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 7.5 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

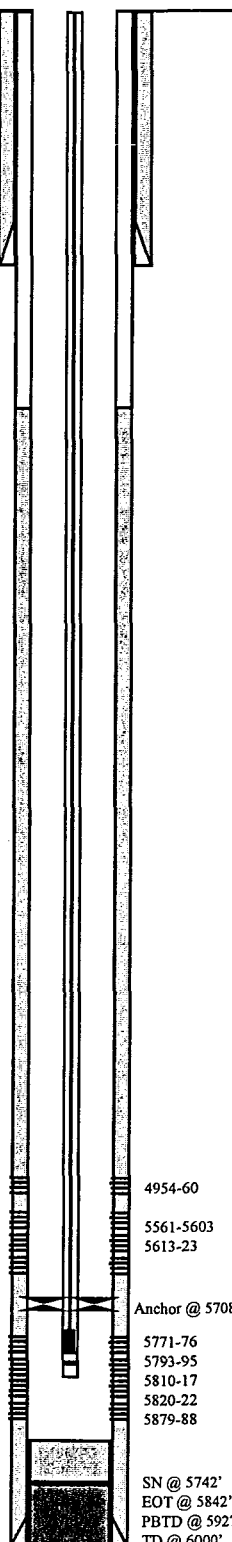
4/14/98 5771'-5888' Frac CP-2 sand as follows:  
127,200# 20/40 sand in 621 bbls Delta  
frac fluid. Perfs brokedown @ 2158 psi.  
Treated @ avg press of 1485 psi w/avg  
rate of 30 bpm. ISIP: 1545 psi, 5-min  
1411 psi. Flowback on 12/64" choke for  
5 hours and died.

4/16/98 5561'-5623' Frac LODC sand as follows:  
140,900# of 20/40 sand in 643 bbls Delta  
Frac fluid. Perfs brokedown @ 2365 psi.  
Treated @ avg press of 1850 psi w/avg  
rate of 32.8 bpm. ISIP-2275 psi, 5-min  
2117 psi. Flowback on 12/64" choke for 4  
hours and died.

4/18/98 4954'-4960' Frac D-2 sand as follows:  
104,300# 20/40 sand in 519 bbls Delta  
Frac fluid. Perfs brokedown @ 3994 psi.  
Treated @ avg press of 1520 psi w/avg  
rate of 26.2 bpm. ISIP: 2334 psi, 5-min  
1687 psi. Flowback on 12/64" choke for  
3 hours and died.

PERFORATION RECORD

4/13/98	5771'-5776'	4 JSPF	20 holes
4/13/98	5793'-5795'	4 JSPF	8 holes
4/13/98	5810'-5817'	4 JSPF	28 holes
4/13/98	5820'-5822'	4 JSPF	8 holes
4/13/98	5879'-5888'	4 JSPF	36 holes
4/16/98	5561'-5603'	2 JSPF	84 holes
4/16/98	5613'-5623'	2 JSPF	20 holes
4/17/98	4954'-4960'	4 JSPF	24 holes



Inland Resources Inc.

Odekirk Spring #6-36-8-17

1994' FNL 1967' FWL

SENW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33013; Lease #ML-44305

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# Odekirk Spring #7-36-8-17

Spud Date: 6-15-98  
Put on Production: 7-23-98  
GL: 4999.8' KB: 10'

Initial Production: 97 BOPD,  
46 MCFPD, 8 BWPD

Wellbore Diagram

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (314')  
DEPTH LANDED: 324' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Class G cmt, est 3 bbls cmt to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6109')  
DEPTH LANDED: 6118'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 235 sx Premium & 335 sx Class G  
CEMENT TOP AT:

## TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 191 jts.  
TUBING ANCHOR: 5886'  
SEATING NIPPLE: 2-7/8" (1.10")  
TOTAL STRING LENGTH: EOT @ 6027'  
SN LANDED AT: 5931'

## SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-11/2" wt rods, 4-3/4" scraped, 133-3/4" plain rods, 95-3/4" scraped, 1-4", 1-2"x3/4" pony  
PUMP SIZE: 2-1/2 x 1-1/2 x 15 RHAC pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL 6124'-322'  
CN/CD/GR 6104'-3000'

## FRAC JOB

7-9-98 5980'-6089' **Frac Lo CP sands as follows:**  
134,012# 20/40 sand in 659 bbls Viking frac fluid. Perfs brokedown @ 2745 psi. Treated @ avg press of 1880 psi w/avg rate of 33.6 bpm. ISIP: 2160 psi, 5-min 2046 psi. Flowback on 12/64" choke for 4 hours and died.

7-11-98 5466'-5656' **Frac LDC sand as follows:**  
162,370# of 20/40 sand in 755 bbls Viking Frac fluid. Perfs brokedown @ 2870 psi. Treated @ avg press of 1600 psi w/avg rate of 40.8 bpm. ISIP-1660 psi, 5-min 1541 psi. Flowback on 12/64" choke for 6 hours and died.

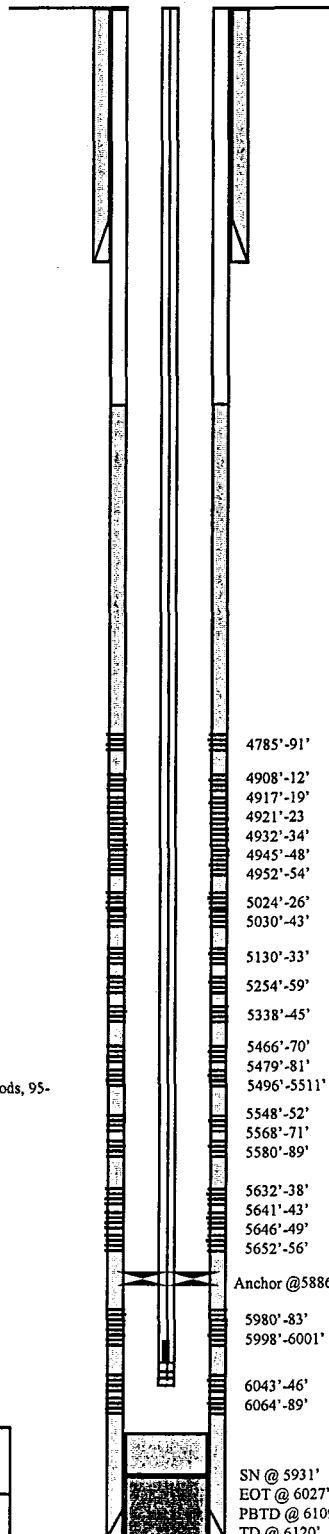
7-14-98 5254'-5345' **Frac A sand as follows:**  
117,436# 20/40 sand in 577 bbls Viking. Perfs broke @ 2308 psi. Treated w/avg press of 1700 psi w/avg rate of 30.1 BPM. ISIP-2300 psi, 5 min 2025 psi. Flowback on 12/64" ck for 4 hrs & died.

7-16-98 5024'-5133' **Frac C/B sand as follows:**  
97,340# 20/40 sand in 502 bbls Viking. Perfs broke @ 3688 psi. Treated w/avg press of 1600 psi w/avg rate of 28 BPM. ISIP-2150 psi, 5 min 2029 psi. Flowback on 12/64" ck for 3 hrs & died.

7-18-98 4785'-4954' **Frac D/YDC sands as follows:**  
121,613# 20/40 sand in 628 bbls Viking. Perfs broke @ 2532 psi. Treated w/avg press of 1700 psi w/avg rate of 36 BPM. ISIP-1950 psi, 5 min 1838. Flowback on 12/64" ck for 4 hrs & died.

## PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
7-9-98	5980'-5983'	4 JSPF	12 holes
7-9-98	5998'-6001'	4 JSPF	12 holes
7-9-98	6043'-6046'	4 JSPF	12 holes
7-9-98	6064'-6089'	4 JSPF	100 holes
7-10-98	5466'-5470'	2 JSPF	8 holes
7-10-98	5479'-5481'	2 JSPF	4 holes
7-10-98	5496'-5511'	2 JSPF	30 holes
7-10-98	5548'-5552'	2 JSPF	8 holes
7-10-98	5568'-5571'	2 JSPF	6 holes
7-10-98	5580'-5589'	2 JSPF	38 holes
7-10-98	5632'-5638'	2 JSPF	12 holes
7-10-98	5641'-5643'	2 JSPF	4 holes
7-10-98	5646'-5649'	2 JSPF	6 holes
7-10-98	5652'-5656'	2 JSPF	8 holes
7-12-98	5254'-5259'	4 JSPF	20 holes
7-12-98	5338'-5345'	4 JSPF	28 holes
7-15-98	5024'-5026'	4 JSPF	8 holes
7-15-98	5030'-5043'	4 JSPF	52 holes
7-15-98	5130'-5133'	4 JSPF	12 holes
7-17-98	4785'-4791'	4 JSPF	24 holes
7-17-98	4908'-4912'	4 JSPF	16 holes
7-17-98	4917'-4919'	4 JSPF	8 holes
7-17-98	4921'-4923'	4 JSPF	8 holes
7-17-98	4932'-4934'	4 JSPF	8 holes
7-17-98	4945'-4948'	4 JSPF	12 holes
7-17-98	4952'-4954'	4 JSPF	8 holes



Inland Resources Inc.

Odekirk Spring #7-36-8-17

1980 FNL 1980 FEL

SWNE Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33078; Lease #ML-44305

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DIVISION OF  
OIL, GAS AND MINING

## Odekirk Spring #11-36-8-17

Spud Date: 6-23-98  
Put on Production: 7-18-98  
GL: 5015' KB: 5025'

Initial Production: 53 BOPD,  
26 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.91')  
DEPTH LANDED: 302.66' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Class G cmt, est 7 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts. (6136')  
DEPTH LANDED: 6145'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 250 sx Premium Lite Modified & 350 sx Class G  
CEMENT TOP AT:

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 183 jts.  
TUBING ANCHOR: 5662'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT 5881' ?  
SN LANDED AT: 5816'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-11/2" wt rods, 4-3/4" scraped, 128-3/4" plain rods, 96-3/4" scraped, 1-3/4" plain, 1-2"x3/4" pony  
PUMP SIZE: 2-1/2 x 1-1/2 x 15-1/2' RHAC pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 7 SPM  
LOGS: DIGL/SP/GR/CAL 6148'-304'  
CN/CD/GR 6128'-3000'

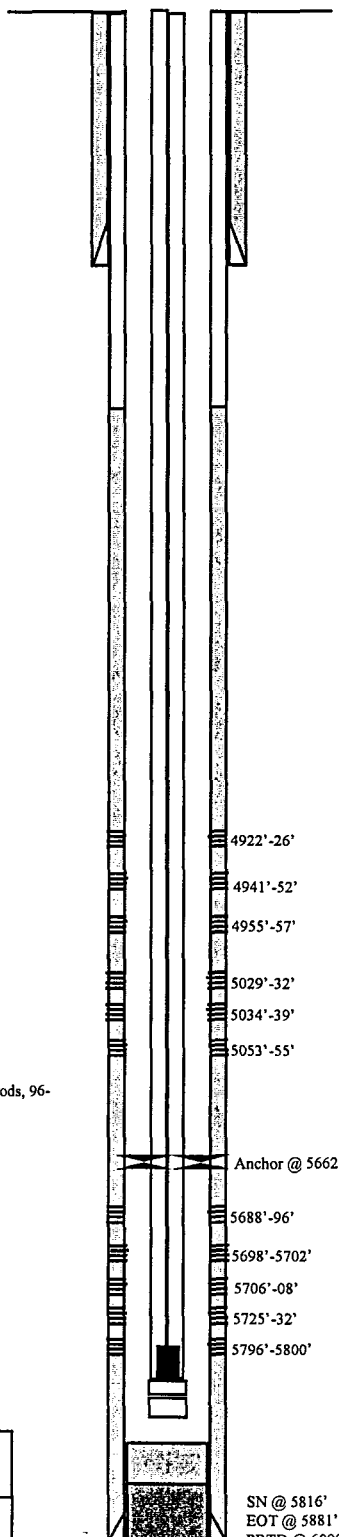
FRAC JOB

7-14-98 5688'-5800' Frac CP sands as follows:  
134,220# 20/40 sand in 655 bbls Viking  
frac fluid. Perfs brokedown @ 2017 psi.  
Treated @ avg press of 1000 psi w/avg  
rate of 34.6 bpm. ISIP: 1600 psi, 5-min  
1514 psi. Flowback on 12/64" choke for  
4 hours and died.

7-16-98 4922'-5055' Frac D/C sand as follows:  
137,300# of 20/40 sand in 629 bbls Viking  
Frac fluid. Perfs brokedown @ 3507 psi.  
Treated @ avg press of 1400 psi w/avg  
rate of 30 bpm. ISIP-1800 psi, 5-min  
1734 psi. Flowback on 12/64" choke for 4  
hours and died.

PERFORATION RECORD

7-11-98	5688'-5696'	4 JSPF	32 holes
7-11-98	5698'-5702'	4 JSPF	12 holes
7-11-98	5706'-5708'	4 JSPF	8 holes
7-11-98	5725'-5732'	4 JSPF	28 holes
7-11-98	5796'-5800'	4 JSPF	16 holes
7-15-98	4922'-4926'	4 JSPF	16 holes
7-15-98	4941'-4952'	4 JSPF	36 holes
7-15-98	4955'-4957'	4 JSPF	8 holes
7-15-98	5029'-5032'	4 JSPF	12 holes
7-15-98	5034'-5039'	4 JSPF	20 holes
7-15-98	5053'-5055'	4 JSPF	8 holes



Inland Resources Inc.

Odekirk Spring #11-36-8-17

2110 FSL 2067 FEL

NESW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33077; Lease #ML-44305

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DIVISION OF  
OIL, GAS AND MINING

## Balcron Monument Federal #23-25

## Wellbore Diagram

Elev. GR - 4992' GL  
Elev. KB - 5002' KB (10' KB)

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 260.50' (6 jts)  
DEPTH LANDED: 270.50' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: By Western W/ 160 sxs  
class "G", 2% CaCl<sub>2</sub>,  
1/4#/sk cello-seal.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 6173.26' (146 jts)  
DEPTH LANDED: 6182.26' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 50 sxs super "G", 47#/sk  
POZ, 17#/sk CSE, 3% salt  
2% gel, 5#/sk HISEAL,  
2-1/4#/sk CELLOSEAL  
Tailed w/ 125 sxs super "G",  
47#/sk G + 20#/sk POZ  
17#/sk CSE, 3% salt, 2% GEL  
2#/sk HISEAL, 2-1/4#/sk CELLOSEAL  
450 sxs 50/50 POZ + 2% GEL,  
2#/sk HISEAL

## TUBING CEMENT TOP AT: 2230' KB

SIZE/GRADE/WT.: 2-7/8" EUE / J-55 / 6.5#  
NO. OF JOINTS: 162 jts (5108.03')  
TUBING ANCHOR: 2 7/8 x 5 1/2 - 2.35 @ 5119.34'  
NO. OF JOINTS: 27 jts (831.27')  
SEATING NIPPLE: 2 7/8 - 1.10'  
PERFORATED SUB: 2 7/8 - 4.20'  
MUD ANCHOR: 2 7/8 / 31.07'  
STRING LENGTH: 5978.02'  
SN LANDED AT: 5952.75' KB

## SUCKER RODS

POLISHED ROD: 1-1/4"x22'  
SUCKER RODS: 237- 3/4"x25' D-61 Plain

STRING LENGTH: 5925'

PUMP NUMBER: Trico # 1127  
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 85.5"  
PUMP SPEED, SPM: 7-1/2" SPM  
PUMPING UNIT: American 228-213-86  
PRIME MOVER: Ajax EH-30

## ACID JOB /BREAKDOWN

2/8/95 5824'-5827' Western: 2940 gal 2% KCL wtr  
5830'-5834' w/ 100 ball sealers, ball  
5850'-5855' action seen but no ball out.  
ATP= 4700 psi, ATR=6.0 bpm  
ISIP= 1000 psi.  
2/8/95 5886'-5898' Western: 3150 gal 2% KCL  
wtr w/ 100 ball sealers.  
Ball action seen but no ball off.  
ATP= 2300 psi, ATR=  
5.9 bpm, ISIP=1000 psi.  
2/13/95 5300'-5308' Western: 3486 gals 2% KCL  
5327'-5338' w/ 150 ball sealers. Ball action  
seen but no ball off. ATP=  
2150 psi, ATR= 5.0 bpm,  
ISIP= 800 psi.  
2/13/95 5378'-5394' Western: 4452 gals 2% KCL  
w/ 125 ball sealers.  
Ball actions seen but no  
ball off. ATP=1800 psi,  
ATR= 6.1 bpm, ISIP= 800 psi.  
2/27/95 5160'-5175' Western: 3822 gal 2% KCL  
5204'-5207' wtr, w/ 125 ball sealers.  
5214'-5216' Ball action seen but no  
ball off. ATP=2400 psi, ATR=  
6.8 bpm, ISIP= 1100 psi.

## FRAC JOB

2/8/95 5824'-5827' Western: 40,908 gal 2%  
5830'-5834' KCL wtr w/ 60,480 # 20/40 sand  
5850'-5855' and 90,640 # 16/30 sand.  
5886'-5898' ATP= 1700 psi, ATR=  
31.5 bpm, ISIP=1750 psi,  
5 min=1580 psi, 10 min=  
1490 psi, 15 min=1420 psi,  
30 min=1360 psi.  
2/20/95 5300'-5308' Western: 47,208 gals 2%  
5327'-5338' KCL wtr w/ 60,000# 20/40  
5378'-5394' sand & 92,000# 16/30 sand.  
ATP=1200 psi, ATR=33.0  
bpm, ISIP=1500 psi, 5 min=  
1360 psi, 10 min=1250 psi,  
15 min=1180 psi, 30 min=  
985 psi.  
2/27/95 5160'-5175' Western: 37,548 gals 2%  
5204'-5207' KCL wtr, w/ 67,000# 20/40  
5214'-5216' sand & 68,700# 16/30 sand.

5160'-76' R-5

5204'-07' R-5  
5214'-16' R-5

5300'-08' G-1  
5327'-38' G-1  
5378'-94' G-1

5824'-27' B-1C  
5830'-34' B-1C  
5850'-55' B-1D  
5886'-98' B-2

## PERFORATION RECORD

DATE	SERVICE	DEPTH	SPF	HOLES
2/7/95	Cutter Wireline Service	5824'-5827'	4 SPF	B-1C
		5830'-5834'	4 SPF	B-1C
		5850'-5855'	4 SPF	B-1D
		5886'-5898'	4 SPF	B-2
2/13/95	Cutter Wireline Service	5300'-5308'	4 SPF	G-1
		5327'-5338'	4 SPF	G-1
		5378'-5394'	4 SPF	G-1
2/27/96	Cutter Wireline Service	5160'-5176'	4 SPF	R-5
		5204'-5207'	4 SPF	R-5
		5214'-5216'	4 SPF	R-5

## PROPOSED PERFORATIONS :

DEPTH	SPF	HOLES
4531' - 4533'	4 SPF	2 ft 8 holes
4543' - 4554'	4 SPF	11 ft 44 holes

SN LANDED @ 5952.75' KB  
EOT LANDED @ 5988' KB

PBTD @ 6137' KB  
TD @ 6200' KB

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OIL, GAS AND MINING

Inland Resources Inc.

Balcron Monument Federal # 23-25  
Monument Butte ( Humpback Unit )  
Lease #U-67845  
NE SW Section 25, T8S, R17E  
1927' FSL, 2139' FWL  
Uintah County, Utah

## Balcron Monument Federal #24-25

## Wellbore Diagram

Elev.GR - 5018' GL  
Elev.KB - 5028' KB (10' KB)

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 291.52' (7 jts)  
DEPTH LANDED: 301.52' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: By BJ Services: 190 sks  
class"G", 220 CaCl<sub>2</sub>,  
1/4#/sk cello seal.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 6206.84' (142 jts)  
DEPTH LANDED: 6216.84' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: By BJ Services: 191 sks  
Super "G", 47#G +20#/sk  
POZ, 17#/sk CSE, 3% salt  
2% Gel, 2#/sk HISEAL,  
1/4#/sk CELLO SEAL

CEMENT TOP AT: 1840' KB

**TUBING**

SIZE/GRADE/WT.: 2-7/8" EUE 8rd / J-55 / 6.5#  
NO. OF JOINTS: 166 jts (5207.44')  
TUBING ANCHOR: 2-7/8"x5-1/2"x2.35'  
NO. OF JOINTS: 3 jts (5304.98')  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x4.20'  
MUD ANCHOR: 2-7/8"x28.42'  
STRING LENGTH: 5328.70'  
SN LANDED AT: 5306.08' KB

**SUCKER RODS**

POLISHED ROD: 1-1/4"x22" SM  
SUCKER RODS: 2-3/4"x4" Pony Rods  
212-3/4"x25" D-61 Plain

TOTAL STRING LENGTH: 5330'

PUMP NUMBER: Trico # 1124

PUMP SIZE: 2-1/2"x1-1/2"x16" RWAC

STROKE LENGTH: 86"

PUMP SPEED, SPM: 6.0 SPM

PUMPING UNIT: Beth. 320-2461-86

PRIME MOVER: Ajax E-42

**ACID JOB / BREAKDOWN**

10/9/95	5056'-5062'	BJ Services: 1558 gal
	5072'-5074'	2% KCL wtr w/ 12 ball sealers. Ball out.
		ATP=3200 psi, ATR=3.3 bpm, ISIP=1200 psi.
10/9/95	5137'-5151'	BJ Services: 1587 gal
		2% KCL wtr w/ 16 ball sealers. Ball off.
		ATP=2000 psi, ATR=3.4 bpm, ISIP=1000 psi.
10/10/95	5056'-5062'	BJ Services: Second
	5072'-5074'	breakdown on this section.
		200 gal 15% HCL w/
		3168 gal 2% KCL wtr.
		& 16 ball sealers. Ball action
		but no ball off.
		ATP=2000 psi, ATR=3.1 bpm, ISIP=100 psi.
10/10/95	5137'-5151'	BJ Services: 300 gal 15%
		HCL w/ 1674 gal 2% KCL
		wtr w/ 16 ball sealers. Ball action
		but no ball out. ATP=2500
		psi, ATR=3.3 bpm, ISIP=1200 psi.
10/14/95	5006'-5012'	BJ Services: 500 gal 15%
	5022'-5024'	HCL w/ 1764 gal 2% KCL
		wtr 7 64 ball sealers. Ball
		action but no ball out. ATP=
		1800 psi, ATR=5.0 bpm,
		ISIP=1050 psi.
10/16/95	4528'-4536'	BJ Services: 2016 gal 2%
		KCL wtr w/ 64 ball sealers
		ATP=3200 psi, ATR=
		2.0 bpm. ISIP=1650 psi.

**FRAC JOB**

10/10/95	5056'-5062'	BJ Services: 6,006 gal
	5072'-5074'	2% KCL wtr w/ 4800 # 20/40
	5137'-5151'	sand. ATP=4900 psi.
		Perfs would not take fluid. Shut down
		frac and TIH w/ pkr and break down perfs.
10/11/95	5056'-5062'	BJ Services: Second attempt:
	5072'-5074'	34,272 gals
	5137'-5151'	2% KCL wtr w/ 52,300 #
		20/40 sand & 86,520 #
		16/30 sand. ATP=4000 psi,
		ATR=33.5 bpm, ISIP=
10/14/95	5006'-12'	2800 psi, 5 min 2190 psi, 10 min
	5022'-24'	1670 psi, 15 min 1360 psi, 30
		min 1100 psi. No frac done on
		this zone.
10/16/95	4528'-36'	BJ Services: 11,298 gal 2% KCI
		wtr w/50,260# 16/30 sand. ATP
		3200 psi, @ 31 BPM, ISP 4500
		psi, 5 min 2920 psi, 10 min 2540
		psi, 15 min 2160 psi.

**PERFORATION RECORD**

10/09/95	5056'-5062'	8 holes	shale
10/09/95	5072'-5074'	2 holes	shale
10/09/95	5137'-5151'	4 holes	R-5
10/13/95	5006'-5012'	4 SPF	R-2
10/13/95	5022'-5024'	4 SPF	R-2
10/14/95	4528'-4536'	4 SPF	Y-3



Inland Resources Inc.

Balcron Monument Federal #24-25  
Monument Butte (Humpback Unit)  
Lease #U-67845  
SE SW Section 25, T8S, R17E  
653' FSL, 2028' FWL  
Uintah County, Utah

SN @ 5306.08' KB  
EOT @ 5338.70' KB  
TD @ 6250' KB  
PBTD @ 6167' KB

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## Balcron Monument Federal #34-25

Elev.GR - 5007.60' GL  
Elev.KB - 5017.60' KB (10' KB)

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 288.77'  
DEPTH LANDED: 298.77' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: BJ Services: 190 sks  
"G", 2% CACL<sub>2</sub>, 1/4#/sk  
Cello-Seal

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 6098.14'  
DEPTH LANDED: 6108.14' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: BJ Services: 220 sks  
Super "G", 47#/sk G,  
20#/sk POZ A, 17#/sk CSE,  
3% salt, 2% gel, 2#/sk Hi-Seal,  
Tail w/395 sks 50/50 POZ,  
2% gel, 1/4#/sk Cello-Seal,  
2#/sk Hi-Seal2.

CEMENT TOP AT: 1730' KB

**TUBING**

SIZE/GRADE/WT.: 2-7/8" 8rd EUE/ J-55/ 6.5#  
NO. OF JOINTS: 166 Jts (5197.44')  
TUBING ANCHOR: 2-7/8"x5-1/2"x2.35' Trico @ 5209.79'  
NO. OF JOINTS: 3 Jts (95.19')  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x4.20'  
MUD ANCHOR: 2-7/8"x28.42'  
STRING LENGTH: 5328.70'  
SN LANDED AT: 5304.98' KB

**SUCKER RODS**

POLISHED ROD: 1-1/4"x22' SM  
SUCKER RODS: 2-3/4"x4' Pony  
212-3/4"x25' D-61 Plain

TOTAL STRING LENGTH: 5330'

PUMP NUMBER: Trico #1124  
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 86 inches  
PUMP SPEED, SPM: 3 SPM  
PUMPING UNIT: American C-228  
PRIME MOVER: Ajax E-42

**ACID JOB /BREAKDOWN**

10/19/95 5257' - 5268' BJ Services: 4179 gal 2%  
5271' - 5283' KCL wtr w/ 184 ball sealers.  
Ball action no ball off.  
ATP=1400 psi, ATR=  
6.2 bpm, ISIP=550 psi.

**FRAC JOB**

10/20/95 5257' - 5268' BJ Services: 36,456 gal  
5271' - 2% KCL wtr w/59,120#  
20/40 sand, 87,240# 16/30  
sand. ATP= 1500 psi,  
ATR=37.5 bpm, ISIP=  
1550 psi, 5 min=1300 psi,  
10 min=1250 psi, 15 min=  
1200 psi, 30 min=1030 psi.

TOC @ 1730' KB

**PERFORATION RECORD**

10/19/95 Cutter 5257' - 5268' 4 SPF G-1L  
5271' - 5283' 4 SPF G-1L

5257 - 5268' G-1L  
5271' - 5283' G-1L

SN LANDED @ 5305' KB  
EOT LANDED @ 5338.70' KB

PBTD @ 6055' KB  
TD @ 6175' KB



Inland Resources Inc.

Balcron Monument Federal #34-25  
Monument Butte ( Humpback Unit )  
Lease #U-67845  
SW SE Section 25, T8S, R17E  
800' FSL, 2100' FEL  
Uintah County, Utah

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OIL, GAS AND MINING

**ATTACHMENT E**

**NAME AND DEPTH OF USDWs**

**For Class II wells, submit geologic name and depth to bottom of all underground sources of drinking water, which may be affected by the injection.**

Due to the location and depth of the well, it will not affect any source of drinking water. See Attachments E-1 through E-4, showing pertinent water analyses.

Attachment E-1 Water analysis of the primary fluid to be injected (Unichem Water Analysis of the Johnson Water District, taken January 26, 2000)

Attachment E-2 Water Analysis of the secondary fluid to be injected (Unichem Water Analysis of produced water commingled with Johnson Water, taken August 25, 1999 at the Monument Butte Injection Facility)

Attachment E-3 Analysis of the formation water taken from the Odekirk Spring State #3-36-8-17.

Attachment E-4 Analysis of the compatibility of the injected and formation water

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**DIVISION OF  
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# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066

Office (435) 722-5068  
Fax (435) 722-5727

Attachment E-1

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION Address \_\_\_\_\_ Date 1-27-00  
Source JOHNSON Date Sampled 1-26-00 Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Mg/l
1. PH	<u>7.4</u>		
2. H <sub>2</sub> S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.001</u>		
4. Dissolved Solids		<u>600</u>	
5. Alkalinity (CaCO <sub>3</sub> )		CO <sub>3</sub> <u>0</u>	+ 30 <u>0</u> CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> <u>240</u>	+ 61 <u>4</u> HCO <sub>3</sub>
7. Hydroxyl (OH)		OH <u>0</u>	+ 17 <u>0</u> OH
8. Chlorides (Cl)		Cl <u>71</u>	+ 35.5 <u>2</u> Cl
9. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> <u>130</u>	+ 48 <u>3</u> SO <sub>4</sub>
10. Calcium (Ca)		Ca <u>72</u>	+ 20 <u>4</u> Ca
11. Magnesium (Mg)		Mg <u>41</u>	+ 12.2 <u>3</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )		<u>350</u>	
13. Total Iron (Fe)		<u>0.6</u>	
14. Manganese			
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

4	Ca	←	HCO <sub>3</sub>	4
3	Mg	→	SO <sub>4</sub>	3
2	Na	→	Cl	2

#### Saturation Values

CaCO<sub>3</sub>

CaSO<sub>4</sub> · 2H<sub>2</sub>O

MgCO<sub>3</sub>

#### Distilled Water 20°C

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Eq. Wt.	X	Mg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	11.04	<u>4</u>			<u>324</u>
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19	<u>3</u>			<u>181</u>
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.48				

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REMARKS \_\_\_\_\_

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# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84088

Attachment E-2

Office (435) 722-5086  
Fax (435) 722-5727

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION

Address \_\_\_\_\_

Date 8-25-99

Source MBIF

Date Sampled 8-25-99

Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Mag/l
1. PH	8.0		
2. H <sub>2</sub> S (Qualitative)	0		
3. Specific Gravity	1.001		
4. Dissolved Solids		688	
5. Alkalinity (CaCO <sub>3</sub> )		CO <sub>3</sub> 0	+ 30 0 CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> 430	+ 61 7 HCO <sub>3</sub>
7. Hydroxyl (OH)		OH 0	+ 17 0 OH
8. Chlorides (Cl)		Cl 71	+ 35.5 2 Cl
9. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> 0	+ 48 0 SO <sub>4</sub>
10. Calcium (Ca)		Ca 40	+ 20 2 Ca
11. Magnesium (Mg)		Mg 12	+ 12.2 1 Mg
12. Total Hardness (CaCO <sub>3</sub> )		150	
13. Total Iron (Fe)		13	
14. Manganese		0	
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

2	Ca	←	HCO <sub>3</sub>	7
1	Mg	→	SO <sub>4</sub>	0
0	Na	→	Cl	2

Saturation Values

CaCO<sub>3</sub>

CaSO<sub>4</sub> · 2H<sub>2</sub>O

MgCO<sub>3</sub>

Distilled Water 20°C

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Eqvly. Wt.	X	Mag/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	2			162
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50	1			73
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62	4			336
NaHCO <sub>3</sub>	64.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03	2			117
NaCl	58.46				

REMARKS \_\_\_\_\_

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435 722 5727

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A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066Office (435) 722-5066  
Fax (435) 722-5727

Attachment E-3

**WATER ANALYSIS REPORT**Company Inland Address \_\_\_\_\_ Date 10/17/00Source Cedekirk Springs State Date Sampled 10/16/00 Analysis No. \_\_\_\_\_  
3-36-8-17

	Analysis	mg/l(ppm)	*Meg/l
1. PH	8.4		
2. H <sub>2</sub> S (Qualitative)	0.0		
3. Specific Gravity	1.008		
4. Dissolved Solids		8,356	
5. Alkalinity (CaCO <sub>3</sub> )		0	÷ 30
6. Bicarbonate (HCO <sub>3</sub> )		550	+ 61
7. Hydroxyl (OH)		0	÷ 17
8. Chlorides (Cl)		4,600	+ 35.5
9. Sulfates (SO <sub>4</sub> )		0	+ 48
10. Calcium (Ca)		8	÷ 20
11. Magnesium (Mg)		1	÷ 12.2
12. Total Hardness (CaCO <sub>3</sub> )		25	
13. Total Iron (Fe)		2.0	
14. Manganese		0.0	
15. Phosphate Residuals			

\*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION**

Compound	Eqvly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04				
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.60				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62		9		756
NaHCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46				

0	Ca	←	HCO <sub>3</sub>	9
0	Mg	→	SO <sub>4</sub>	0
139	Na	→	Cl	130

**Saturation Values**CaCO<sub>3</sub>CaSO<sub>4</sub> · 2H<sub>2</sub>OMgCO<sub>3</sub>**Distilled Water 20°C**

13 Mg/l

2,090 Mg/l

103 Mg/l

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# QUAMIX SCALING PREDICTIONS

Attachment E-4

COMPANY: INLAND PRODUCTION CO  
 LOCATION:  
 SYSTEM:

10-17-2000

WATER DESCRIPTION: ODS 3-36-8-17

	INPUT ANALYSIS	VALUES USED IN CALCULATIONS
P-ALK AS PPM CaCO <sub>3</sub>	0	0
M-ALK AS PPM CaCO <sub>3</sub>	902	902
SULFATE AS PPM SO <sub>4</sub>	0	
CHLORIDE AS PPM Cl	4600	4600
HARDNESS AS PPM CaCO <sub>3</sub>	0	
CALCIUM AS PPM CaCO <sub>3</sub>	20	20
MAGNESIUM AS PPM CaCO <sub>3</sub>	4	4
SODIUM AS PPM Na	3197	3197
BARIUM AS PPM Ba	0	
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	
TOTAL DISSOLVED SOLIDS	8356	8347
TEMP (DEG-F)	100	
SYSTEM pH	8.4	8.4

**RESULTS:**

IONIC STRENGTH-MOLAL	.140
SPECIFIC GRAVITY (EST. VALUE)	1.01
TOTAL DISSOLVED SOLIDS-PPM (EST. VALUE)	8347

**SCALING PREDICTIONS OVER A RANGE OF TEMPERATURES:**

DEG-F	STIFF DAVIS CaCO <sub>3</sub> INDEX	lbs/1000 BBL EXCESS CaCO <sub>3</sub>	mg/l BaSO <sub>4</sub> IN EXCESS OF SATURATION	mg/l SrO <sub>4</sub> IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
80	9.50	1	0	0	0
100	.32	3	0	0	0
120	.58	5	0	0	0
140	.87	6	0	0	0
160	1.09	6	0	0	0
180	1.42	6	0	0	0
200	1.79	6	0	0	0

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## ATTACHMENT G

### GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

**For Class II wells, submit appropriate geological data on the injection zone and confining zones, including lithologic description, geological name, thickness, and depth and fracture pressure.**

The proposed injection well produced from and will inject into the Green River formation. Water is sourced from the Johnson Water District and injected or is commingled with produced water at the Monument Butte Injection Facility and processed for individual well injection.

The injection zones are in the Green River formation, bounded by the Garden Gulch marker and the Basal Carbonate Marker. The Green River is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the Odekirk Spring #3-36 location, the proposed injection zone is from 4982'-5948'. The porous and permeable lenticular sandstones vary in thickness from 0' - 31' and are confined to the Monument Butte area by low porosity calcareous shales and carbonates.

The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate, in the Odekirk Spring #3-36 well. The strata confining the injection zone are composed of tight, moderately calcareous, sandy lacustrine shales. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the Odekirk Spring #3-36 will be determined upon testing. The minimum fracture gradient calculates at 0.716 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be conducted upon injection and periodically thereafter to determine the actual fracture pressure. As the fracture pressure increases, we may elect to increase the injection pressure, but will not exceed the maximum of 1671 psig.

#### Communication Prevention:

The injection system will be equipped with high and low pressure shut down devices, which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

Attachment G-1	Formation Tops
Attachment G-2	Proposed Maximum Injection Pressure
Attachment G-3	Fracture Reports Dated 4-9-98; 4-11-98; 4-14-98 and 4-16-98
Attachment G-4	Drilling and Completion Reports Dated 1-30-98 to 2-14-98; and 4-7-98 to 4-20-98.

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ATTACHMENT G-1  
FORMATION TOPS  
ODEKIRK SPRING STATE #3-36-8-17

<u>FORMATION</u>	<u>DEPTH (ft)</u>
Green River	1730'
Garden Gulch	4305'
Point Three Marker	4565'
X Marker	4786'
Y-Marker	4824'
Douglas Creek	4949'
Bicarbonate Marker	5190'
B-Limestone	5334'
Castle Peak Limestone	5796'
Total Depth	6050'

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**Odekirk Spring State #3-36-8-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
4982	4986	4984	2156	0.866	2144
5025	5036	5031	2156	0.862	2143
5040	5044	5042	2156	0.861	2144
5117	5119	5118	2156	0.854	2145
5268	5276	5272	2368	0.882	2355
5669	5686	5678	2192	0.819	2176
5691	5701	5696	2192	0.818	2178
5704	5712	5708	2192	0.817	2178
5850	5853	5852	1685	0.721	1672
5872	5878	5875	1685	0.720	1671
5892	5895	5894	1685	0.719	1672
5912	5916	5914	1685	0.718	1672
5945	5948	5947	1685	0.716	1672
				<b>Minimum</b>	<b>1671</b>

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.005.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Avg. Depth})) / \text{Avg. Depth}$

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## Daily Completion Report

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-047-33015

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
TD: 6050'  
Completion Rig: Flint #1497

**4/8/98 PO: Perf CP sds. (Day 1)**

Summary: 4/7/98 - MIRU Flint #1497. NU BOP. PU & TIH w/4-3/4" bit, 5-1/2" csg scraper, 191 jts 2-7/8" 8rd 6.5# M-50 tbg. Tag PBD @ 5966'. RU & rev. circ hole. Rec some cmt color & chunks. Press test csg & BOP to 3000 psi. Swab FL dn to 5300'. TOH w/tbg. LD bit & scraper. SIFN.  
DC: \$20,916 TWC: \$199,185

**4/9/98 PO: Frac CP sds. (Day 2)**

Summary: 4/8/98 - RU HLS & perf CP sds @ 5850-53', 5872-78', 5892-95', 5912-16' & 5945-48' w/4 jspf. TIH w/tbg to 5942'. IFL @ 5300'. Made 3 swab runs, rec 10 BTF. FFL @ 5800'. SIFN.  
DC: \$4,877 TWC: \$204,062

**4/10/98 PO: Perf LDC sds. (Day 3)**

Summary: 4/9/98 - TP: 0, CP: 0. IFL @ 5700'. Made 1 dry swab run, rec 1 BTF w/tr oil. FFL @ 5800'. TOH w/tbg. NU isolation tool. RU Halliburton & frac CP sds w/111,300# 20/40 sd in 562 bbls Delta Frac. Perfs broke dn @ 2073 psi. Treated @ ave press of 1500 psi w/ave rate of 30 BPM. ISIP: 1685 psi, 5 min: 1521 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 157 BTF (est 28% of load). SIFN w/est 405 BWTR.  
DC: \$25,163 TWC: \$229,225

**4/11/98 PO: Frac LDC sds. (Day 4)**

Summary: 4/10/98 - CP: 0. TIH w/5-1/2" RBP & tbg. Set plug @ 5755'. Press test plug to 3000 psi. Swab FL dn to 5100'. Rec 110 BTF. TOH w/tbg. RU HLS & perf LDC sds @ 5669-86', 5691-5701' & 5704-13' W/2 jspf. TIH w/tbg to 5699'. IFL @ 5106'. Made 4 swab runs, rec 10 BTF. FFL @ 5600'. SIFN w/est 285 BWTR.  
DC: \$4,984 TWC: \$234,209

**4/12/98 PO: Perf B sds. (Day 5)**

Summary: 4/11/98 - TP: 0, CP: 0. IFL @ 5400'. Made 1 swab run, rec 2 BTF. FFL @ 5600'. TOH w/tbg. NU isolation tool. RU Halliburton & frac LDC sds w/111,300# 20/40 sd in 551 bbls Delta Frac. Perfs broke dn @ 2606 psi. Treated @ ave press of 1700 psi w/ave rate of 28 BPM. ISIP: 2192 psi, 5 min: 2075 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 173 BTF (est 31% of load). SIFN w/est 661 BWTR.  
DC: \$25,034 TWC: \$259,243

**4/13/98 SD for Sunday.****4/14/98 PO: Frac B sds. (Day 6)**

Summary: 4/13/98 - CP: 50. Bleed off est 5 bbls frac fluid. TIH w/RH & tbg. Tag sd @ 5664'. CO sd to RBP @ 5755'. Release plug. Pull up & reset @ 5440'. Press test plug to 3000 psi. Swab FL dn to 4600'. Rec 99 BTF. TOH w/tbg. RU HLS & perf B sds @ 5268-76' w/4 jspf. TIH w/tbg to 5382'. IFL @ 4300'. Made 5 swab runs, rec 21 BTF w/tr oil. FFL @ 5300'. SIFN w/est 536 BWTR.  
DC: \$4,237 TWC: \$263,480

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Attachment C-3

Daily Completion Report - Page Two

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-047-33015

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
TD: 6050'  
Completion Rig: Flint #1497

4/15/98 PO: Perf & breakdown D/C sds. (Day 7)

Summary: 4/14/98 - TP: 25, CP: 25. Bleed gas off well. IFL @ 4100'. Made 5 swab runs, rec 25 BTF w/FOC @ 25%. FFL @ 5300'. TOH w/tbg. NU isolation tool. RU Halliburton & frac B sds w/104,400# 20/40 sd in 527 bbls Delta Gel. Perfs broke dn @ 2045 psi. Treated @ ave press of 1635 psi w/ave rate of 26.2 BPM. ISIP: 2368 psi, 5 min: 2161 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 167 BTF (est 32% of load). SIFN w/est 871 BWTR.  
DC: \$24,523 TWC: \$288,003

4/16/98 PO: Frac D/C sds. (Day 8)

Summary: 4/15/98 - CP: 25. Bleed off est 4 bbls frac fluid. TIH w/RH & tbg. Tag sd @ 5259'. CO sd to RBP @ 5440'. Release plug. Pull up & reset @ 5163'. Press test plug to 3000 psi. TOH w/tbg. RU HLS & perf D/C sds @ 4982-86', 5025-36', 5040-44' & 5117-19' w/4 jsf. TIH w/5-1/2" RTTS pkr & tbg. Set pkr @ 5100'. Break dn perfs 5117-19' @ 1700 psi. Inject 1 BW @ .75 BPM @ 1400 psi. Break dn perfs 4982-5044' @ 1600 psi. Inject 1 BW @ .75 BPM @ 1300 psi. Release pkr. Pull EOT to 4944'. IFL @ sfc. Swab FL dn to 4700'. Rec 101 BTF w/tr oil. SIFN w/est 768 BWTR.  
DC: \$5,960 TWC: \$293,963

4/17/98 PO: Pull plug. CO PBTD. Swab well. (Day 9)

Summary: 4/16/98 - TP: 100. Bleed gas off tbg. IFL @ 2000'. Made 2 swab runs, rec 30 BTF (est 15 BO, 15 BW). FOC @ 50%. FFL @ 2200'. TOH w/tbg. NU isolation tool. RU Halliburton & frac D/C sds w/137,200# 20/40 sd in 625 bbls Delta Gel. Perfs broke back @ 1599 psi @ 5 BPM. Treated @ ave press of 1970 psi w/ave rate of 35 BPM. ISIP: 2156 psi, 5 min: 1967 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 167 BTF (est 27% of load). SIFN w/est 1211 BWTR.  
DC: \$28,259 TWC: \$322,222

4/18/98 PO: Swab well. Trip production tbg. (Day 10)

Summary: 4/17/98 - CP: 150. Bleed off est 7 bbls frac fluid. TIH w/RH & tbg. Tag sd @ 5010'. CO sd to RBP @ 5163'. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5792'. CO sd to PBTD @ 5952'. Circ hole clean. Lost est 90 BW during circ's. Pull EOT to 5884'. IFL @ sfc. Made 9 swab runs, rec 110 BTF w/tr sd. FFL @ 1000'. SIFN w/est 1184 BWTR.  
DC: \$2,370 TWC: \$324,592

4/19/98 PO: PU rods. Place well on production. (Day 11)

Summary: 4/18/98 - TP: 150, CP: 100. Bleed gas off well. IFL @ 300'. Made 11 swab runs, rec 120 BTF (est 95 BW, 25 BO). No sd. Good gas. FOC @ 20%. FFL @ 900'. TIH w/tbg. Tag sd @ 5951' (1' fill). TOH w/tbg. TIH w/production tbg as follows: 2-7/8" bull plug, 3 jts tbg, perf sub, SN, 2 jts tbg, 5-1/2" TA, 184 jts 2-7/8" 8rd 6.5# M-50 tbg. ND BOP. Set TA @ 5731' w/SN @ 5791' & EOT @ 5895'. Land tbg w/12,000# tension. NU well head. SIFN w/est 1089 BWTR.  
DC: \$3,041 TWC: \$327,633

4/20/98 SD for Sunday.

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Attachment G-3

Daily Completion Report - Page Three

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-047-33015

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
TD: 6050'  
Completion Rig: Flint #1497

4/21/98 PO: Well on production. (Day 12)

Summary: 4/20/98 - TP: 50, CP: 50. Bleed gas off well. RU HO Trk to tbg & flush w/30 bbls hot wtr. PU & TIH w/rod string as follows: 2-1/2" x 1-1/2" x 16' RHAC rod pmp, 4 - 1-1/2" weight rods, 4 - 3/4" scraped rods, 127 - 3/4" plain rods, 96 - 3/4" scraped rods, 1 - 8', 1 - 2' x 3/4" pony rods, 1-1/2" x 22' polished rod. Seat pmp. RU pumping unit. Fill tbg w/1 BW. Press test pmp & tbg to 400 psi. Stroke pmp w/unit to 800 psi. Good pmp action. RDMO. **PLACE WELL ON PRODUCTION @ 1:00 PM, 4/20/98 W/74" SL @ 6 SPM.** Est 1120 BWTR.  
DC: \$108,746 TWC: \$436,379

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Attachment G-4

### Daily Drilling Report

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-013-31071

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
PTD: 6500'

- 1/31/98 TD: 321', made 311'. (Uinta) PO: NU BOP's. (Day 1)**  
Summary: 1/30/98 - 6 hrs - MIRU Union #7. 1 hr - Drl & set 15' of 13-3/8" conductor. Spud well @ 1:00 pm, 1/30/98. 1-1/2 hrs - Drl MH & RH. 1-3/4 hrs - Drl Kelly dn. NU air bowl & flowline, head rubber. 4-1/4 hrs - Drl 12-1/4" hole 21' - 321'. 1 hr - Run 8-5/8" GS, 7 jt 8-5/8", 24#, J-55, ST & C csg (293'). Csg set @ 303'. 3/4 hr - RU Halliburton. Pmp 5 bbl dye wtr & 20 bbl gel. Cmt w/140 sx Premium Plus w/2% CC & 1/2 #/sk Flocele. Had 4 bbl cmt returns. RD HOWCO. 4 hrs - WOC. 2-3/4 hrs - NU BOP's.  
MW: Air/Foam. Bit #1RR, 17-1/2", FB, Depth Out @ 21'. Bit #2RR, 12-1/4", FB, 6B059.  
DC: \$20,874 CC: \$20,874
- 2/1/98 TD: 1728', made 1407'. (Uinta) PO: Drlg. (Day 2)**  
Summary: 1/31/98 - 2-1/2 hrs - Test lines, valves, rams & manifold to 2000 psi, annular preventer to 1500 psi. 1/2 hr --GIH. 1-1/2 hrs - Drl plug, cmt & GS. 19-1/2 hrs - Drl & srvy 321' - 1728'.  
MW: Air/Foam. Srvy: 828' @ 1/4°, 1324' @ 3/4°. Bit #3, 7-7/8", GT-28.  
DC: \$16,349 CC: \$37,223
- 2/2/98 TD: 3458', made 1730'. (Green River) PO: Drlg. (Day 3)**  
Summary: 2/1/98 - 24 hrs - Drl & srvy 1728' - 3458'.  
MW: Air/Foam. Srvy: 1824' @ 1°. 2856' @ 1-1/4°. Bit #3, 7-7/8", GT-28.  
DC: \$20,719 CC: \$57,942
- 2/3/98 TD: 4101', made 643'. (Green River) PO: TIH w/DP to set plug. (Day 4)**  
Summary: 2/2/98 - 5-1/2 hrs - Drl & srvy 3458' - 3755'. 1 hr - RR (U-joint on rotary drive). 4-3/4 hrs - Drl 3755' - 4101'. 1-3/4 hrs - Load hole w/treated wtr. 1-1/4 hrs - Circ & work tight hole. Receiving oil @ sfc. 2-3/4 hrs - TOH. Lost lower portion of bottom DC, BS & bit. LD damaged DC. 6 hrs - TIH, testing DC's for leaks. TOH w/DC's. 1 hr - TIH open - ended w/DP.  
MW: Air/Foam. Srvy: 3755' @ 1-3/4°. Bit #3, 7-7/8", GT-28, Depth Out @ 4101'.  
DC: \$11,700 CC: \$69,642
- 2/4/98 TD: 3918'. (Green River) PO: WOC. (Day 5)**  
Summary: 2/3/98 - 1-1/2 hrs - Finish TIH w/DP in Derrick. 1 hr - PU 19 jts DP & tag fish. 1/2 hr - Set cmt plug 3918' - 4090'. 2-1/2 hrs - TOH. 18-1/2 hrs - WOC.  
MW: 8.4.  
DC: \$608 CC: \$70,250
- 2/5/98 TD: 4041', made 123'. (Green River) PO: Sidetracking. (Day 6)**  
Summary: 2/4/98 - 2-3/4 hrs - TIH w/BHA. 1-1/4 hrs - Dress top of plug. Drl & circ 40' of soft cmt. 20 hrs - Time drl attempting to sidetrack. Samples varying from 50-75% shale.  
MW: 8.3+. Srvy: 3755' @ 3/4°. Bit #4, 7-7/8", NT3M.  
DC: \$200 CC: \$70,450

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Attachment G-4

Daily Drilling Report - Page Two

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-047-33015

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
PTD: 6500'

- 2/6/98 TD: 3365'. (Green River) PO: WOC Plug. (Day 7)**  
Summary: 2/5/98 - 4 hrs - Attempt to sidetrack. Drilled out of cmt into open hole. 1 hr - Circ. 3-1/2 hrs - Chain out of hole. LD MM, sub & bit. 2 hrs - TIH w/DP. Tag fish 4121'. LD 1 jt DP. 2 hrs - C&C while waiting on Halliburton. 1-1/4 hrs - RU Halliburton. Pmp 50 bbl FW, 5 bbl Super Flush, 275 sx Class H+, 5% CFR-3 (17.6 ppg .93 cf/sk yield). Displace w/46 bbl wtr. Cmt plug in place @ 9:10 pm, 2/5/98. 2 hrs - Pull 20 stands. RU Kelly & circ. 1-1/4 hr - TOH. 7 hrs - WOC Plug.  
MW: 8.4. Srvy: 4012' @ 1-1/2°.  
DC: \$7,083 CC: \$77,533
- 2/7/98 TD: 3365'. (Green River) PO: GIH w/BHA. (Day 8)**  
Summary: 2/6/98 - 23 hrs - WOC. 1 hr - PU BHA & GIH.  
MW: 8.3+. Bit #4, 7-7/8", NT3M.  
DC: \$182 CC: \$77,715
- 2/8/98 TD: 3374'. (Green River) PO: TIH w/BHA. (Day 9)**  
Summary: 2/7/98 - 2 hrs - TIH w/BHA. Tag green cmt 3356'. 1/2 hr - Srvy @ 3310'. 2 hrs - Drl green cmt 3356' - 3374'. Cmt firming up but still soft - drilling 50'/hr w/5 - 6000# weight. 1 hr - C&C. 2-1/2 hrs - TOH. 16 hrs - WOC.  
MW: 8.3+. Srvy: 3310' @ 1-1/4°. Bit #4, 7-7/8", NT3M.  
DC: \$150 CC: \$77,865
- 2/9/98 TD: 3650'. (Green River) PO: POH for 4° Bent Sub & bit. (Day 10)**  
Summary: 2/8/98 - 1 hr - Finish TIH. 1/2 hr - Srvy. 17-1/2 hrs - Drl soft cmt 3374' - 3522'. Time drl 3522' - 3570': 3522' - 3537' (5 min/in) 99% cmt, 3527' - 3561' (2.5 min/in) 10% black shale, 3561' - 3566' (2.5 min/in) 10-15% black shale, 3566' - 3570' (5 min/in) 95% cmt. 2-1/2 hrs - Drl cmt 3570' to break @ 3647'. 2 hrs - Time Drl 3647 - 49' (5min/in) 99% cmt. 1/2 hr - C&C.  
MW: 8.3+. Srvy: 3369' @ 1°. Bit #4, 7-7/8", NT3M.  
DC: \$2,800 CC: \$80,665
- 2/10/98 TD: 3667'. (Green River) PO: Time drlg. (Day 11)**  
Summary: 2/9/98 - 5-1/2 hrs - TFB #5, 4° BS. 18-1/2 hrs - Time drl 3650' - 3667' 5 min/in. Sample varying from 20 - 50% shale.  
DC: \$1,869 CC: \$82,534
- 2/11/98 TD: 3755', made 88'. (Green River) PO: Drlg. (Day 12)**  
Summary: 2/10/98 - 12-1/2 hrs - Time drl 3667' - 3669' (2-5 min/in), getting 100% red shale. Time drl 3669' - 3691' (1-1/2 - 2 min/in), getting 100% shale. 1-1/2 hrs - Drl 3691' - 3703' w/8 - 15,000#. 3/4 hr - Circ. Samples 100% shale. 1-1/2 hrs - Srvy @ 3676'. Had misrun - timer & mechanism on srvy tool malfunctioning. 1-1/2 hrs - WO new srvy tool. Re-survey @ 3676'. 2 hrs - Drl 3703' - 3721' w/12 - 15,000#, 100% shale. 1/2 hr - Srvy @ 3692'. 1-1/2 hrs - Drl 3721' - 3739' w/10,000# w/20,000#. bit, 100% shale. 1-1/2 hrs - Circ & srvy @ 3712'. 3/4 hr - Drl 3739' - 3755' w/20,000#.  
MW: 8.3+. Srvy: 3676' @ 1°, 3692' @ 1-1/4°, 3712' @ 1°. Bit #4, 7-7/8", NT3M.  
DC: \$6,633 CC: \$89,167

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Attachment G-4

Daily Drilling Report - Page Three

ODEKIRK SPRING 3-36  
NE/NW Sec. 36, 8S, 17E  
Uintah Co., Utah  
API # 43-047-33015

Spud Date: 1/30/98  
MIRU Drl Rig: 1/30/98, Union #7  
PTD: 6500'

- 2/12/98 TD: 4406', made 274'. (Green River) PO: Drlg. (Day 13)**  
Summary: 1/11/98 - 1 hr - Drl 3755' - 3770'. 2 hrs - Circ & srvy @ 3743'. 5-3/4 hrs - TOH. LD bent sub & bit. TIH. Fill DP. 7-3/4 hrs - Drl & srvy 3770' - 4155'. 1-1/2 hrs - Work through tight hole (oil & tar). 6 hrs - Drl 4155' - 4406'.  
MW: 8.3+. Srvy: 3743' @ 3/4°, 3811' @ 1-1/4°. Bit #5, 7-7/8" M3609, Depth Out @ 3770'. Bit #4RR, 7-7/8", NT3M.  
DC: \$8,588 CC: \$97,755
- 2/13/98 TD: 5482', made 1076'. (Green River) PO: C&C. (Day 14)**  
Summary: 1/12/98 - 23-1/4 - Drl 4406' - 5482'. 1/4 hr - RS. 1/2 hr - C&C prior to TFB & MM.  
MW: 8.3+. Bit #4RR, 7-7/8", NT3M, Depth Out @ 5482'.  
DC: \$13,899 CC: \$111,654
- 2/14/98 TD: 6050', made 568'. (Green River) PO: LD DP. (Day 15)**  
Summary: 1/13/98 - 1/2 hr - C&C. 1/2 hr - Level Derrick. 6-3/4 hrs - TFB & MM. Fill DP. 11-1/4 hrs - Drl 5482' - 6050'. TD @ 2:00 am, 2/14/98. 1-1/2 hrs - Pmp sweep. C&C. 3-1/2 hrs - LD DP.  
MW: 8.4. Bit #6RR, 7-7/8", GT28, Depth Out @ 6050'.  
DC: \$9,088 CC: \$120,742
- 2/15/98 TD: 6050'. (Green River) PO: WO Completion. (Day 16)**  
Summary: 1/14/98 - 1-1/2 hrs - Finish LD DP & DC's. 4-3/4 hrs - RU HLS. Run DIGL/SP/GR/CAL (6018' - 304') & DSN/SDL/GR (5990' - 3000'). Logger's TD 6022'. RD HLS. 4-1/4 hrs - RU Lightning Casers. Run 5-1/2" GS, 1 jt 5-1/2" csg (42'), 5-1/2" FC, 140 jts 5-1/2", 15.5#, J-55, LT & C csg (6001'). Csg landed @ 6011'. RD Casers. 1/2 hr - RU Halliburton. C&C. 1 hr - Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/300 sx Hibond 65 Modified (11.0 ppg 3.0 cf/sk yield) & tailed w/350 sx Thixotropic & 10% Calseal (14.2 ppg 1.59 cf/sk yield). POB w/2300 psi @ 7:00 pm, 2/14/98. Good returns until 25 bbls from plug, then had 25-50% variable returns. No dye to sfc. RD Halliburton. 2 hrs - ND BOP's. Set slips w/80,000#. Dump mud tanks. Rig released @ 9:00 pm, 2/14/98.  
MW: 8.4.  
DC: \$57,527 CC: \$178,269

FINAL DRILLING REPORT: WOCT

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OIL, GAS AND MINING

## ATTACHMENT H

### OPERATING DATA

Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; and (4) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

1. Estimated average daily rate is 300 BPD, and the estimated maximum daily rate is 500 BPD.
2. The average and maximum surface pressure will be determined upon testing.
3. Fresh water treated with scale inhibitor, oxygen scavenger, biocide (behind packer fluid).
4. The injected fluid is primarily culinary water from the Johnson Water District; in secondary cases the injected fluid will be culinary water from the Johnson Water District commingled with produced water. (See Attachments E-1 through E-4 for analysis).

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**ATTACHMENT M**  
**CONSTRUCTION DETAILS**

**Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.**

Attachment M-1	Wellbore schematic of Odekirk Spring #3-36
Attachment M-2	Site Plan of Odekirk Spring #3-36

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**DIVISION OF  
OIL, GAS AND MINING**

## Odekirk Spring #3-36-8-17

Spud Date: 1/30/98  
Put on Production: 4/20/98  
GL: 5059' KB: 5069'

Initial Production: 86 BOPD,  
155 MCFPD, 5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (293')  
DEPTH LANDED: 303' (GL)  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6001')  
DEPTH LANDED: 6011'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sk Hibond mixed & 350 sxs thixotropic  
CEMENT TOP AT: 1415' CBL

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
NO. OF JOINTS: 189 jts.  
TUBING ANCHOR: 5731'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5895'  
SN LANDED AT: 5791'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
SUCKER RODS: 4-3/4" scraped, 127-3/4" plain rods, 96-3/4" scraped  
PUMP SIZE: 2-1/2 x 1-1/2 x 16 RHAC pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

4/9/98 5850'-5948' Frac CP-1 & CP-2 sands as follows:  
111,300# 20/40 sand in 562 bbls Delta  
frac fluid. Perfs brokedown @ 2073 psi.  
Treated @ avg press of 1500 psi w/avg  
rate of 30 bpm. ISIP: 1685 psi, 5-min  
1521 psi. Flowback on 12/64" choke for  
4 hours and died.

4/11/98 5669'-5713' Frac LODC sand as follows:  
111,300# of 20/40 sand in 551 bbls Delta  
Frac fluid. Perfs brokedown @ 2606 psi.  
Treated @ avg press of 1700 psi w/avg  
rate of 28 bpm. ISIP: 2192 psi, 5-min  
2075 psi. Flowback on 12/64" choke for 4  
hours and died.

4/14/98 5268'-5276' Frac B-I sand as follows:  
104,400# 20/40 sand in 527 bbls Delta  
Frac fluid. Perfs brokedown @ 2045 psi.  
Treated @ avg press of 1635 psi w/avg  
rate of 26.2 bpm. ISIP: 2368 psi, 5-min  
2161 psi. Flowback on 12/64" choke for  
4 hours and died.

4/16/98 4982'-5119' Frac D-1, D-2 & C sands as follows:  
137,200# of 20/40 sand in 625 bbls  
Delta Frac fluid. Perfs brokedown @  
1599 psi @ 5 BPM. Treated @ avg press  
of 1970 psi w/avg rate of 35 bpm. ISIP-  
2156 psi, 5-min 1967 psi. Flowback on  
12/64" choke for 4 hours and died.

PERFORATION RECORD

4/8/98	5850'-5853'	4 JSPF	12 holes
4/8/98	5872'-5878'	4 JSPF	24 holes
4/8/98	5892'-5895'	4 JSPF	12 holes
4/8/98	5912'-5916'	4 JSPF	16 holes
4/8/98	5945'-5948'	4 JSPF	12 holes
4/10/98	5669'-5686'	2 JSPF	36 holes
4/10/98	5691'-5701'	2 JSPF	20 holes
4/10/98	5704'-5712'	2 JSPF	18 holes
4/13/98	5268'-5276'	4 JSPF	32 holes
4/15/98	4982'-4986'	4 JSPF	16 holes
4/15/98	5025'-5036'	4 JSPF	44 holes
4/15/98	5040'-5044'	4 JSPF	16 holes
4/15/98	5117'-5119'	4 JSPF	8 holes

4982-86  
5025-36  
5040-44  
5117-19  
  
5268-76  
  
5669-86  
5691-5701  
5704-13  
  
Anchor @ 5731'  
  
5850-53  
5872-78  
5892-95  
5912-16  
5945-48  
  
SN @ 5791'  
EOT @ 5895'  
PBTD @ 5966'  
TD @ 6050'

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DIVISION OF  
OIL, GAS AND MINING

Inland Resources Inc.

Odekirk Spring #3-36-8-17

660' FNL 1980' FWL

NENW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33015; Lease #ML-44305

# Inland Production Company Site Facility Diagram

Odekirk 3-36

NE/NW Sec. 36, T8S, 17E

Uintah County

May 12, 1998

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

## Production Phase:

- 1) Valves 1, 3, 4 sealed closed
- 2) Valves 2 and 5 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5 sealed closed
- 2) Valves 3 open

## Draining Phase:

- 1) Valve 1 open

Well Head

Pumping Unit

Heater Treater

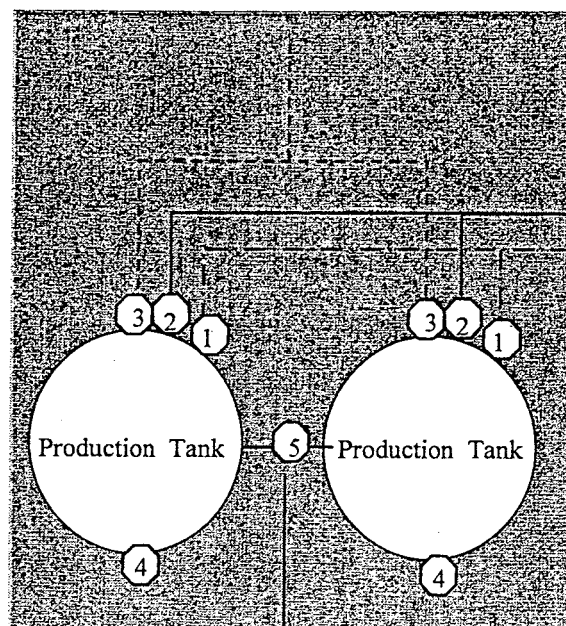
Gas Sales Meter

Water Tank

Diked Section

## Legend

Emulsion Line	.....
Load Line	-----
Water Line	-----
Oil Line	=====
Gas Sales	-----



Equalizer Line

Contained Section

Attachment M-2

**ATTACHMENT Q**

**PLUGGING AND ABANDONMENT PLAN**

**Submit a plan for plugging and abandonment of the well. Submit this information on EPA Form 7520-14, Plugging and Abandonment Plan.**

Attachment Q-1	EPA Form 7520-14, Plugging and Abandonment Plan
Attachment Q-2	Wellbore Schematic of Proposed Plugging and Abandonment
Attachment Q-3	Work Procedure for Plugging and Abandonment

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**DIVISION OF  
OIL, GAS AND MINING**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

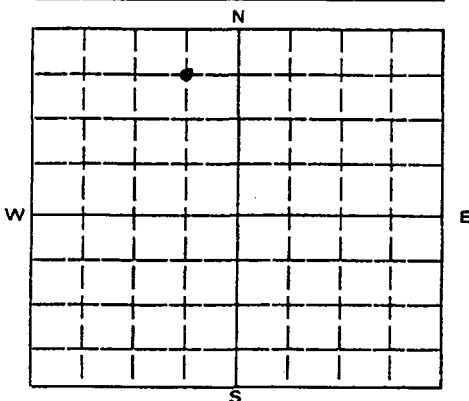
## PLUGGING AND ABANDONMENT PLAN



NAME AND ADDRESS OF FACILITY  
Odekirk Spring State #3-36-8-17  
Uintah County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR  
Inland Production Company  
410 17th Street, Suite 700  
Denver, Colorado 80202

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES



STATE  
Utah

COUNTY  
Uintah

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF NE 1/4 OF NW SECTION 36 TOWNSHIP 8S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location 660 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit  
☐ Area Permit  
☐ Rule

Number of Wells 1

Lease Name Odekirk Spring State

WELL ACTIVITY

- ☐ CLASS I  
☒ CLASS II  
☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III

Well Number #3-36-8-17

## CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8-5/8"	24	293'	293'	12-1/4"
5-1/2"	15.5	6001'	6001'	7-7/8"

## METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will be Placed (inches)	5-1/2"	5-1/2"	5-1/2"	5-1/2"	5-1/2"	annulus	
Depth to Bottom of Tubing or Drill Pipe (ft.)	5895'	5895'	5895'	5895'	5895'	5895'	
Sacks of Cement To Be Used (each plug)	55	55	25	20	10	50	
Slurry Volume To Be Pumped (cu. Ft.)							
Calculated Top of Plug (ft.)	5569'	4882'	2000'	253'	surface	surface	
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8	15.8	15.8	15.8	15.8	15.8	
Type Cement or Other Material (Class III)	Class G	Class G	Class G	Class G	Class G	Class G	

## LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
no open holes			

Estimated Cost to Plug Wells

\$18,000

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DEC 13 2000

## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

**DIVISION OF  
OIL, GAS AND MINING**

NAME AND OFFICIAL TITLE (Please type or print)  
Bill Pennington  
Chief Executive Officer

SIGNATURE

*Bill Pennington*

DATE SIGNED

November 13, 2000

## Odekirk Spring #3-36-8-17

Spud Date: 1/30/98  
 Put on Production: 4/20/98  
 GL: 5059' KB: 5069'

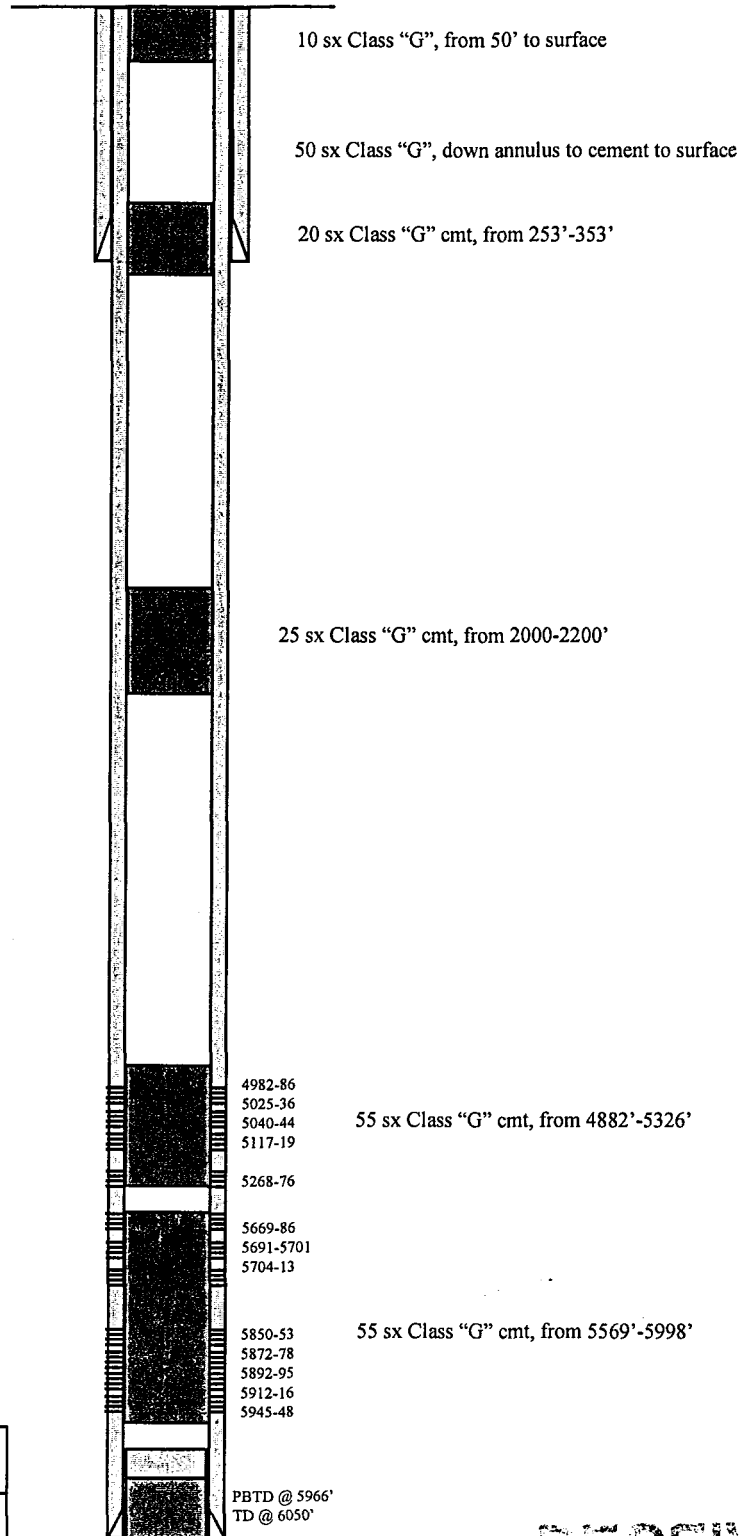
Initial Production: 86 BOPD,  
 155 MCFPD, 5 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293')  
 DEPTH LANDED: 303' (GL)  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 140 jts. (6001')  
 DEPTH LANDED: 6011'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sk Hibond mixed & 350 sxs thixotropic  
 CEMENT TOP AT: 1415' CBL

Proposed P & A  
Wellbore Diagram

Inland Resources Inc.

Odekirk Spring #3-36-8-17

660' FNL 1980' FWL

NENW Section 36-T8S-R17E

Uintah Co, Utah

API #43-047-33015; Lease #ML-44305

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DIVISION OF  
OIL, GAS AND MINING

ATTACHMENT Q-3

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Plug #1 Set 429' plug from 5569'-5998' with 55 sxs Class "G" cement.
2. Plug #2 Set 444' plug from 4882'-5326' with 55 sxs Class "G" cement.
3. Plug #3 Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
4. Plug #4 Set 100' plug from 253'-353' with 20 sxs Class "G" cement (50' above and 50' below casing shoe).
5. Plug #5 Set 50' plug from surface with 10 sxs Class "G" cement.
6. Plug #6 Pump 50 sxs Class "G" cement down the 7-7/8" x 5-1/2" annulus to cement to surface.

Odekirk Spring State #3-36-8-17

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DIVISION OF  
OIL, GAS AND MINING

**ATTACHMENT R**  
**NECESSARY RESOURCES**

**Submit evidence such as a surety bond or financial statement to verify that the resources necessary to close, plug, or abandon the well are available.**

Inland Production Company demonstrates financial responsibility by submitting annually the 10K financial report.

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**DEC 13 2000**

**DIVISION OF  
OIL, GAS AND MINING**

(June 1990)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budgeted Bureau No. 1004-0135

Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

## 1. Type of Well

☒ Oil Well    ☐ Gas well    ☐ Other

## 2. Name of Operator

Inland Production Co.

## 3. Address and Telephone No.

(303) 893-0102

410 Seventeenth Street, Suite 700 Denver, CO 80202

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/NW    660' FNL &amp; 1980' FWL    Sec. 36, T8S, R17E

## 5. Lease Designation and Serial No.

ML-44305

## 6. If Indian, Allottee or Tribe Name

NA

## 7. If unit or CA, Agreement Designation

## 8. Well Name and No.

Odekirk Spring State #3-36

## 9. API Well No.

43-013-33015

## 10. Field and Pool, or Exploratory Area

Monument Butte

## 11. County or Parish, State

Uintah County, UT

## 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

## TYPE OF ACTION

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing repair
- ☐ Altering Casing
- ☐ Other \_\_\_\_\_
- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-off
- ☒ Conversion to Injection
- ☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

*Joyce I. McGough*  
Joyce I. McGough

Title

Regulatory Specialist

Date

Nov. 13, 2000

(This space of Federal or State office use.)

Approved by

Title

Date

Conditions of approval, if any:

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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DEC 13 2000

\*See Instruction on Reverse Side

**DIVISION OF  
OIL, GAS AND MINING**



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

January 11, 2001

Inland Production Company  
410 Seventeenth Street, Suite 700  
Denver, Colorado 80202

Re: Odekirk Springs Secondary Recovery Project Well: Odekirk Spring 3-36-8-17, Section 36, Township 8 South, Range 17 East, Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Sincerely,

John R. Baza

Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton  
SITLA, Salt Lake City

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company  
**Location:** 36/8S/117E

**Well:** Odekirk Spring 3-36-8-17  
**API:** 43-047-33015

**Ownership Issues:** The proposed well is located on land owned by the State of Utah. The well is located in the Odekirk Springs Secondary Recovery Project. Lands in the one-half mile radius of the well are administered by the State of Utah and the BLM. Inland and various individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland is the operator of the Odekirk Springs Secondary Recovery Project. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 303 feet and is cemented to surface. A 5 ½ inch production casing is set at 6011 feet and has a cement top at 1560 feet. A 2 7/8 inch tubing with a packer will be set at 5801 feet. A mechanical integrity test will be run on the well prior to injection. There are 11 producing or injection wells in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

**Ground Water Protection:** According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 100 feet. Injection shall be limited to the interval between 4982 feet and 5948 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the 3-36-8-17 well is .720 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1671 psig. The requested maximum pressure is 1671 psig. The anticipated average injection pressure is 1500 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

238-3.1

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Odekirk Springs Secondary Recovery Project on December 6, 2000. Correlative rights issues were addressed at that time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that Administrative approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Brad Hill

Date: 01/11/2001

## STATE OF UTAH

## DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.

OIL ☐ GAS ☐  
 WELL WELL OTHER ☒ Water Injection Well

2. NAME OF OPERATOR  
**INLAND PRODUCTION COMPANY**

3. ADDRESS AND TELEPHONE NUMBER  
**Rt. 3 Box 3630, Myton Utah 84052**  
**435-646-3721**

4. LOCATION OF WELL  
 Footages **660 FNL 1980 FWL**  
 QQ, SEC, T, R, M: **NE/NW Section 36, T8S R17E**

5. LEASE DESIGNATION AND SERIAL NO.

**ML-44305**

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME

**N/A**

7. UNIT AGREEMENT NAME

**ODEKIRK SPRING**

8. WELL NAME and NUMBER

**ODEKIRK SPRING 3-36-8-17**

9 API NUMBER

**43-047-33015**

10 FIELD AND POOL, OR WILDCAT

**MONUMENT BUTTE**COUNTY **UINTAH**STATE **UTAH**11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA****NOTICE OF INTENT:**

(Submit in Duplicate)

☐ ABANDON ☐ NEW CONSTRUCTION  
☐ REPAIR CASING ☐ PULL OR ALTER CASING  
☐ CHANGE OF PLANS ☐ RECOMPLETE  
☐ CONVERT TO INJECTION ☐ REPERFORATE  
☐ FRACTURE TREAT OR ACIDIZE ☐ VENT OR FLARE  
☐ MULTIPLE COMPLETION ☐ WATER SHUT OFF  
☐ OTHER \_\_\_\_\_

**SUBSEQUENT REPORT OF:**

(Submit Original Form Only)

☐ ABANDON\* ☐ NEW CONSTRUCTION  
☐ REPAIR CASING ☐ PULL OR ALTER CASING  
☐ CHANGE OF PLANS ☐ RECOMPLETE  
☒ CONVERT TO INJECTION ☐ REPERFORATE  
☐ FRACTURE TREAT OR ACIDIZE ☐ VENT OR FLARE  
☐ OTHER \_\_\_\_\_

DATE WORK COMPLETED \_\_\_\_\_

Report results of Multiple Completion and Re Completions to different  
 reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND  
 LOG form.

\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.

The subject well was converted from a production to an injection well on 12/13/02. The rods and tubing anchor were removed and a packer was inserted in the bottom hole assembly at 4488'. 2

13.

NAME &amp; SIGNATURE: \_\_\_\_\_

TITLE **Vice President**DATE **12/17/2002**

(This space for State use only)

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

**RECEIVED****DEC 18 2002**

DIV. OF OIL, GAS &amp; MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> <b>ML-44305</b>	
<b>2. NAME OF OPERATOR</b> <b>INLAND PRODUCTION COMPANY</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b> <b>N/A</b>	
<b>3. ADDRESS OF OPERATOR</b> <b>Rt. 3 Box 3630, Myton Utah 84052</b> <b>435-646-3721</b>		<b>7. UNIT AGREEMENT NAME</b> <b>ODEKIRK SPRING</b>	
<b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*</b> See also space 17 below.) At surface <b>NE/NW Section 36, T8S R17E</b> <b>660 FNL 1980 FWL</b>		<b>8. FARM OR LEASE NAME</b> <b>ODEKIRK SPRING 3-36-8-17</b>	
<b>14 API NUMBER</b> <b>43-047-33015</b>		<b>9. WELL NO.</b> <b>ODEKIRK SPRING 3-36-8-17</b>	
<b>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</b> <b>5058 GR</b>		<b>10. FIELD AND POOL, OR WILDCAT</b> <b>MONUMENT BUTTE</b>	
<b>12. COUNTY OR PARISH</b> <b>UINTAH</b>		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <b>NE/NW Section 36, T8S R17E</b>	
<b>13. STATE</b> <b>UT</b>			

<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>	(OTHER) <input checked="" type="checkbox"/> <b>Injection Conversion</b>	
(OTHER) <input type="checkbox"/>	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well was converted from a producing to an injection well on 12/13/02. The rods and tubing anchor were removed and a packer was inserted in the bottom hole assembly at 4488'. On 12/27/02 Mr. Dave Hackford w/EPA was contacted of the intent to conduct a MIT on the casing. On 12/27/02 the casing was pressured to 1105 w/no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

RECEIVED

JAN 02 2003

DIV. OF OIL, GAS & MINING

<b>18 I hereby certify that the foregoing is true and correct</b>			
SIGNED <u>Kristin Russell</u>	TITLE <u>Production Clerk</u>	DATE <u>12/31/2002</u>	
cc: BLM			
(This space for Federal or State office use)			

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

238-3.1

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

**RECEIVED**

JAN 02 2003

EPA Witness: \_\_\_\_\_

Date: 12 / 27 / 02

Test conducted by: ERET HENRIE

Others present: \_\_\_\_\_

DIV. OF OIL, GAS & MINING

Well Name: <u>ODEKIRK SPRING 3-36</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>ODEKIRK SPRING</u>		
Location: <u>NE/NW</u> Sec: <u>36</u> T <u>8S</u> N/S R <u>17</u> E/W County: <u>LINCOLN</u> State: <u>NE</u>		
Operator: <u>TINLAND</u>		
Last MIT: <u>- / N/A / -</u> Maximum Allowable Pressure: <u>N/A</u> PSIG		

Is this a regularly scheduled test? ☐ Yes ☒ No

Initial test for permit? ☒ Yes ☐ No

Test after well rework? ☐ Yes ☒ No

Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial Pressure	<u>360</u> psig			
End of test pressure	<u>360</u> psig			
CASING / TUBING ANNULUS PRESSURE				
0 minutes	<u>1105</u> psig			
5 minutes	<u>1105</u> psig			
10 minutes	<u>1105</u> psig			
15 minutes	<u>1105</u> psig			
20 minutes	<u>1100</u> psig			
25 minutes	<u>1100</u> psig			
30 minutes	<u>1100</u> psig			
minutes	psig			
minutes	psig			
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

# MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

## OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff: \_\_\_\_\_ Date:     /     /

Do you agree with the reported test results?    ☐ YES    ☐ NO

If not, why?

Possible violation identified? ☐ YES ☐ NO

If YES, what

If YES - followup initiated? ☐ YES

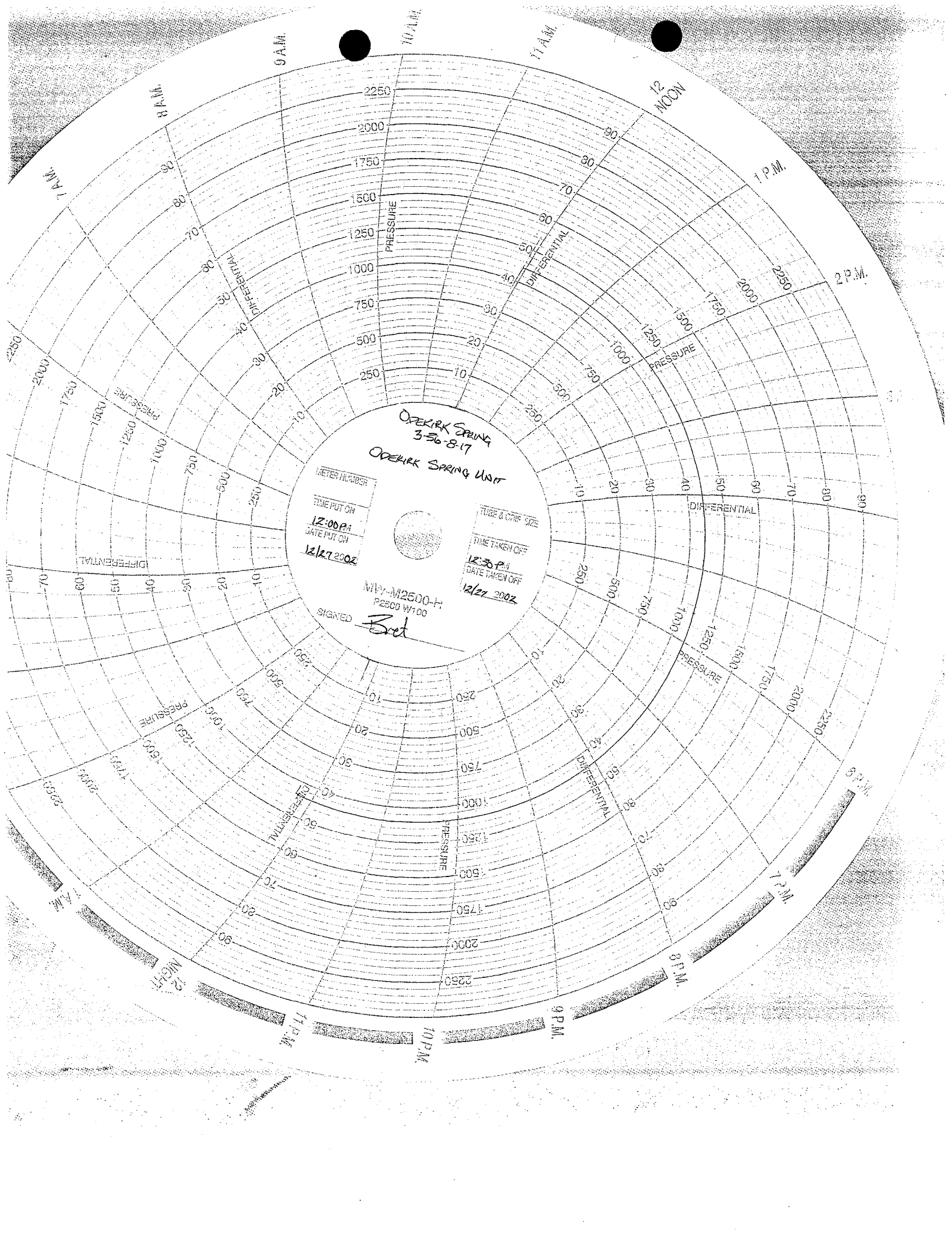
[ ] NO - why not?

[ ] Data Entry

☐ Compliance Staff

[ ] 2<sup>nd</sup> Data Entry

☐ Hardcopy Filing





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

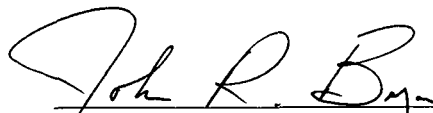
Cause No. UIC-238

**Operator:** Inland Production Company  
**Well:** Odekirk Spring 3-36-8-17  
**Location:** Section 36, Township 8 South, Range 17 East  
**County:** Uintah  
**API No.:** 43-047-33015  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on January 11, 2001.
2. Maximum Allowable Injection Pressure: 1671 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4982' - 5948')

Approved by:

  
John R. Baza  
Associate Director

1/7/03  
Date

BGH/er

cc: Dan Jackson Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton  
SITLA, Salt Lake City



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

JAN 21 2003

RECEIVED

JAN 24 2003

DIV. OF OIL, GAS & MINING

Ref: 8P-W-GW

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. David Gerbig  
Operations Engineer  
Inland Production Company  
410 Seventeenth Street - Suite 700  
Denver, CO 80202

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: **180-Day Limited Authorization to Inject**  
Odekirk Spring State No. 3-36-8-17  
EPA Well Permit No. UT20891-04600  
NE NW Sec. 36 - T8S - R17E  
Uintah County, Utah

Dear Mr. Gerbig:

The Inland Production Company (Inland) submission of **Prior to Commencing Injection** documents, on December 31, 2002, did contain all information required to fulfill the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements, as stated in the well specific Permit: Part II, Section C. Condition 1. The December 31, 2002, data submission contained an EPA WELL REWORK RECORD (Form No. 7520-12), a Part I (Internal) Mechanical Integrity Test, and the injection zone pore pressure. All data was reviewed and approved by the EPA..

The EPA is hereby **authorizing injection into the Odekirk Spring State No. 3-36-8-17 for a limited period of up to one hundred and eighty (180) calendar days effective upon receipt of this letter, herein referred to as the "Limited Authorized Period"**.

Because the cement bond log submitted for this well did not show an adequate interval of 80% or greater bond index through the confining zone overlying the Garden Gulch Member, **the operator is required to demonstrate Part II (External) Mechanical Integrity (Part II MI) within the 180-day "Limited Authorized Period"**. The demonstration shall be by temperature survey or other approved test. Approved tests for demonstrating Part II MI include a temperature survey, noise log or oxygen activation log, and Region 8 may also accept results of a radioactive tracer survey under certain circumstances. The "Limited Authorized Period" allows injection for the purpose of stabilizing the injection formation pressure prior to



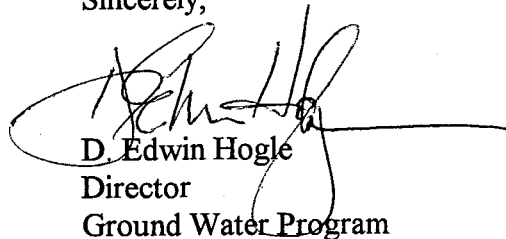
Printed on Recycled Paper

demonstrating Part II MI, which is necessary because the proposed injection zone is under pressured due to previous oil production from the zone, and the tests rely on stable formation pressure. Results of tests shall be submitted to, and written approval with authority to recommence injection received from, EPA prior to resuming injection following the "Limited Authorized Period". A copy of Region 8 guideline for conducting a temperature survey is enclosed with this letter.

An initial maximum surface injection pressure (MSIP) **not to exceed 1399 psig** was determined August 1, 2001 for the Odekirk Spring State No. 3-36-8-17. Should the operator apply for an increase to the MSIP at any future date, another demonstration of Part II MI must be conducted in addition to the step rate test. The operator must receive prior authorization from the Director in order to inject at pressures greater than the permitted MSIP during the test(s).

If you have any questions in regard to the above action, please contact Dan Jackson at 1.800.227.8917 (Ext. 6155). Results from the Temperature Log, or other Part II MI test, should be mailed directly to the **ATTENTION: DAN JACKSON**, at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



D. Edwin Hogle  
Director  
Ground Water Program

enclosure: EPA Guideline No. 37: Part II External MI  
EPA Guideline for Temperature Logging

cc w/ encl: Mr. Mike Guinn  
Inland Production Company  
Myton, UT 84502

cc w/o encl: Mr. D. Floyd Wopsock  
Chairman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ms. Elaine Willie  
Environmental Director  
Ute Indian Tribe

Superintendent  
BIA  
Uintah & Ouray Indian Agency

Mr. Gil Hunt  
State of Utah Natural Resources  
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka  
Bureau of Land Management  
Vernal District Office

Mr. Nathan Wiser, 8ENF-T

## STATE OF UTAH

## DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

OIL ☐ GAS ☐  
WELL ☐ WELL ☐ OTHER ☒2. NAME OF OPERATOR  
**INLAND PRODUCTION COMPANY**3. ADDRESS AND TELEPHONE NUMBER  
**Rt. 3 Box 3630, Myton Utah 84052  
435-646-3721**4. LOCATION OF WELL  
Footages **660 FNL 1980 FWL**  
QQ, SEC, T, R, M: **NE/NW Section 36, T8S R17E**5. LEASE DESIGNATION AND SERIAL NO.  
**ML-44305**6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  
**N/A**7. UNIT AGREEMENT NAME  
**ODEKIRK SPRING**8. WELL NAME and NUMBER  
**ODEKIRK SPRING 3-36-8-17**9. API NUMBER  
**43-047-33015**10. FIELD AND POOL, OR WILDCAT  
**MONUMENT BUTTE**COUNTY **UINTAH**  
STATE **UTAH**11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

## NOTICE OF INTENT:

(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> ABANDON                   | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING             | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS           | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION      | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE        |
| <input type="checkbox"/> MULTIPLE COMPLETION       | <input type="checkbox"/> WATER SHUT OFF       |
| <input type="checkbox"/> OTHER _____               |   |

## SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> ABANDON*  | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING                                     | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS                                   | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION                              | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE                         | <input type="checkbox"/> VENT OR FLARE        |
| <input checked="" type="checkbox"/> OTHER <u>Report of First Injection</u> |   |

DATE WORK COMPLETED \_\_\_\_\_

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.

The above referenced well was put on injection at 1:30 p.m. on 1/27/03.

13.

NAME & SIGNATURE: Mandie Crozier TITLE Permit ClerkDATE 1/28/2003

(This space for State use only)

RECEIVED

JAN 29 2003

DIV. OF OIL, GAS &amp; MINING

## STATE OF UTAH

## DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.

OIL ☐ GAS ☐  
WELL WELL OTHER ☒ **Injection Well**2. NAME OF OPERATOR  
**INLAND PRODUCTION COMPANY**3. ADDRESS AND TELEPHONE NUMBER  
**Rt. 3 Box 3630, Myton Utah 84052**  
**435-646-3721**4. LOCATION OF WELL  
  
Footages **660 FNL 1980 FWL**  
  
QQ, SEC. T, R. M: **NE/NW Section 36, T8S R17E**

5. LEASE DESIGNATION AND SERIAL NO.

**ML-44305**

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME

**N/A**

7. UNIT AGREEMENT NAME

**ODEKIRK SPRING**

8. WELL NAME and NUMBER

**ODEKIRK SPRING 3-36-8-17**

9. API NUMBER

**43-047-33015**

10. FIELD AND POOL, OR WILDCAT

**MONUMENT BUTTE**COUNTY **UINTAH**STATE **UTAH**

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

## NOTICE OF INTENT:

(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> ABANDON                   | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING             | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS           | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION      | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE        |
| <input type="checkbox"/> MULTIPLE COMPLETION       | <input type="checkbox"/> WATER SHUT OFF       |
| <input type="checkbox"/> OTHER _____               |   |

## SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> ABANDON*                               | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING                          | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS                        | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION                   | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE              | <input type="checkbox"/> VENT OR FLARE        |
| <input checked="" type="checkbox"/> OTHER <b>Step Rate Test</b> |   |

DATE WORK COMPLETED \_\_\_\_\_

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

A step rate test was conducted on the subject well on 7/11/03. Results from the test indicate that the fracture gradient is .743 psi/ft. Therefore, Inland is requesting that the maximum allowable injection pressure (MAIP) be changed to 1400 psi.

From 1671

13. NAME & SIGNATURE: Michael Guinn TITLE Vice President of OperationsDATE 7/11/2003

(This space for State use only)

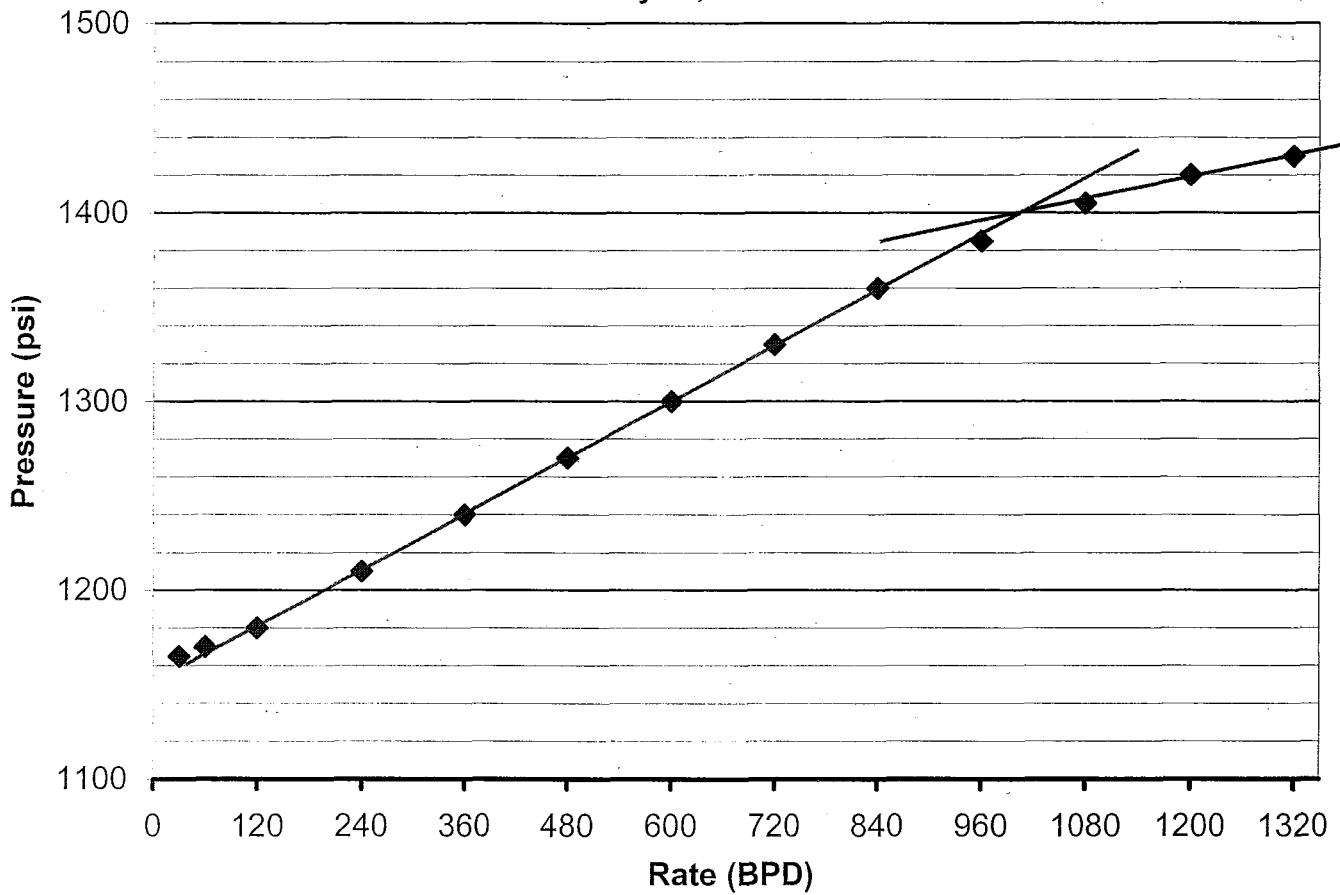
\* See Instructions On Reverse Side

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**

Date: 07-17-03By: [Signature]**RECEIVED****JUL 14 2003**

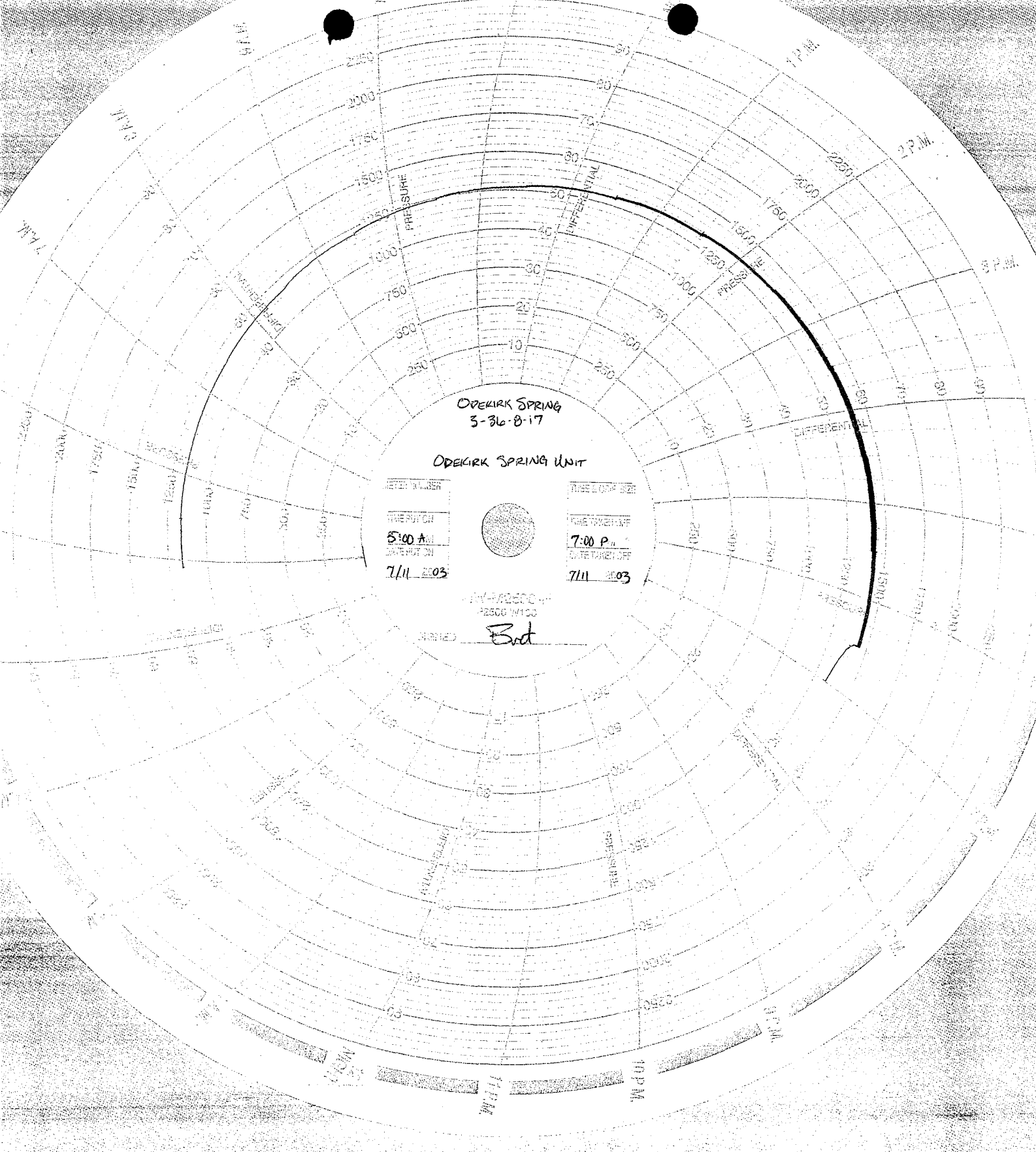
DIV. OF OIL, GAS &amp; MINING

Odekirk Spring 3-36-8-17  
Odekirk Spring Unit  
Step Rate Test  
July 10, 2003



Start Pressure: 1160 psi  
Instantaneous Shut In Pressure (ISIP): 1410 psi  
Top Perforation: 4548 feet  
Fracture pressure (Pfp): 1400 psi  
FG: 0.743 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	30	1165
2	60	1170
3	120	1180
4	240	1210
5	360	1240
6	480	1270
7	600	1300
8	720	1330
9	840	1360
10	960	1385
11	1080	1405
12	1200	1420



ODEKIRK SPRING  
3-36-8-17

ODEKIRK SPRING UNIT

TEST NUMBER

TIME TAKEN

5:00 A.M.

DATE PUT ON

7/11/03

TEST NUMBER

TIME TAKEN

7:00 P.M.

DATE TAKEN OFF

7/11/03

HY-2500  
RES-100

SERIES

Brd

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

## TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

## CURRENT OPERATOR

Company: Inland Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone: (303) 893-0102  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

## NEW OPERATOR

Company: Newfield Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone: \_\_\_\_\_  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*  
Title: *Perk. Services Manager*

Approval Date: 9-20-04Comments: Note: Indian Country wells will require EPA approval.RECEIVED  
SEP 20 2004  
DIV. OF OIL, GAS & MINING



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. S. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004**

**FROM:** (Old Operator):  
 N5160-Inland Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

**TO:** ( New Operator):  
 N2695-Newfield Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

**CA No.****Unit:****ODEKIRK SPRING 36****WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ODEKIRK SPRING 4-36-8-17	36	080S	170E	4304732764	13055	State	OW	P
ODEKIRK SPRING 6-36-8-17	36	080S	170E	4304733013	13055	State	OW	P
ODEKIRK SPRING 5-36-8-17	36	080S	170E	4304733014	13055	State	WI	A
ODEKIRK SPRING 3-36-8-17	36	080S	170E	4304733015	13055	State	WI	A
ODEKIRK SPRING 14-36-8-17	36	080S	170E	4304733075	13055	State	OW	P
ODEKIRK SPRING 11-36-8-17	36	080S	170E	4304733077	13055	State	WI	A
ODEKIRK SPRING 7-36-8-17	36	080S	170E	4304733078	13055	State	WI	A
ODEKIRK SPRING 2-36-8-17	36	080S	170E	4304733079	13055	State	OW	P
ODEKIRK SPRING 1-36-8-17	36	080S	170E	4304733195	13055	State	WI	A
ODEKIRK SPRING 8-36-8-17	36	080S	170E	4304733196	13055	State	OW	P
ODEKIRK SPRING 9-36-8-17	36	080S	170E	4304733197	13055	State	WI	A
ODEKIRK SPRING 10-36-8-17	36	080S	170E	4304733198	13055	State	OW	P
ODEKIRK SPRING 15-36-8-17	36	080S	170E	4304733199	13055	State	OW	P
ODEKIRK SPRING 16-36-8-17	36	080S	170E	4304733200	13055	State	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005  
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005  
3. Bond information entered in RBDMS on: 2/28/2005  
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005  
5. Injection Projects to new operator in RBDMS on: 2/28/2005  
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919  
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML44305

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
ODEKIRK SPRING UNIT

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER ☐ Injection well

8. WELL NAME and NUMBER:  
ODEKIRK SPRING 3-36-8-17

2. NAME OF OPERATOR:  
Newfield Production Company

9. API NUMBER:  
4304733015

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
Monument Butte

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 660 FNL 1980 FWL

COUNTY: Uintah

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NW, 36, T8S, R17E

STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
	SubDate		TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 09/21/2005	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

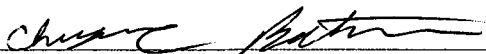
A step rate test was conducted on the subject well on September 21, 2005. Results from the test indicate that the fracture gradient is .751 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1435 psi.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Cheyenne Batemen

TITLE Well Analyst Foreman

SIGNATURE



DATE 09/22/2005

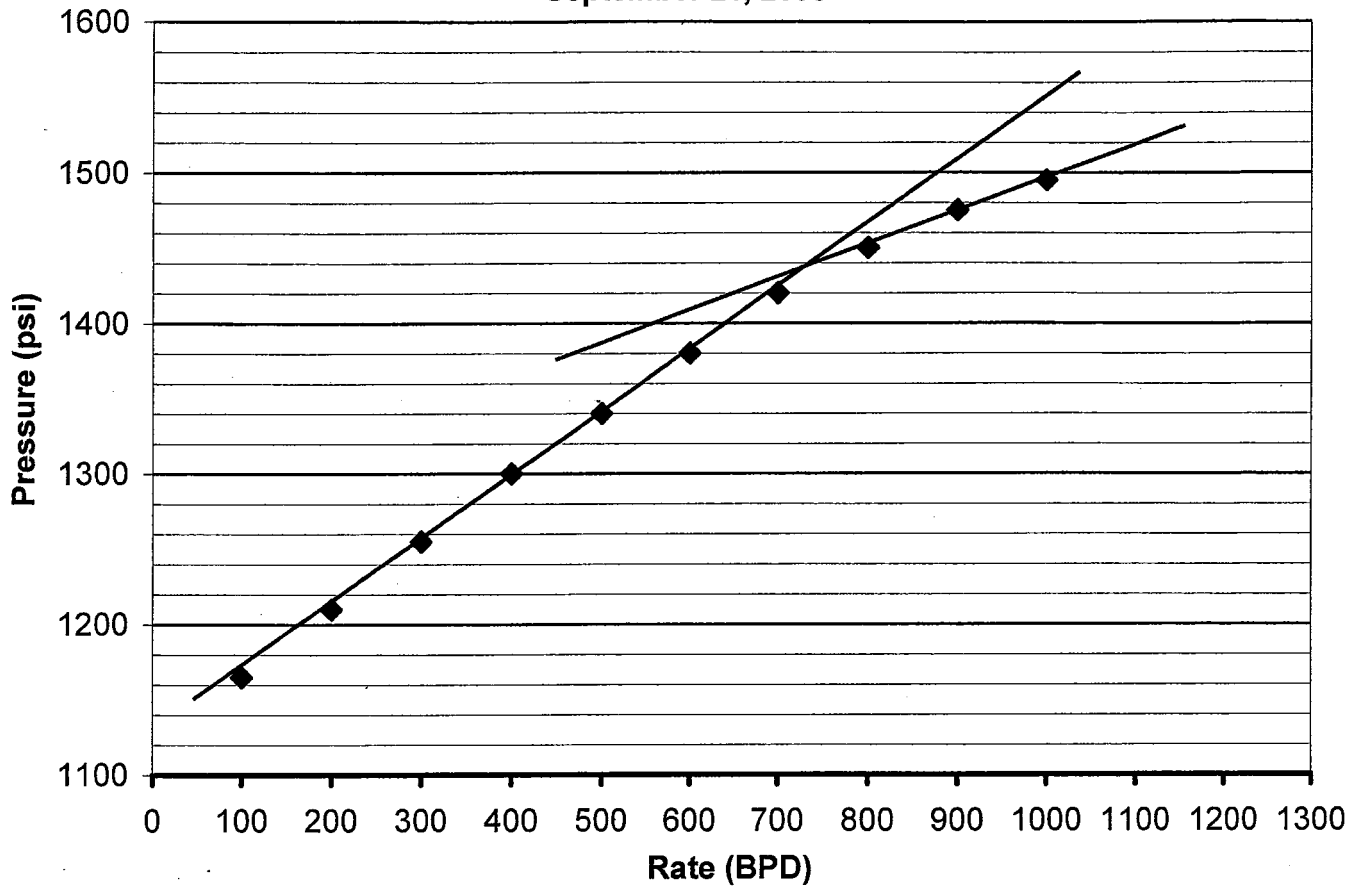
(This space for State use only)

RECEIVED

OCT 03 2005

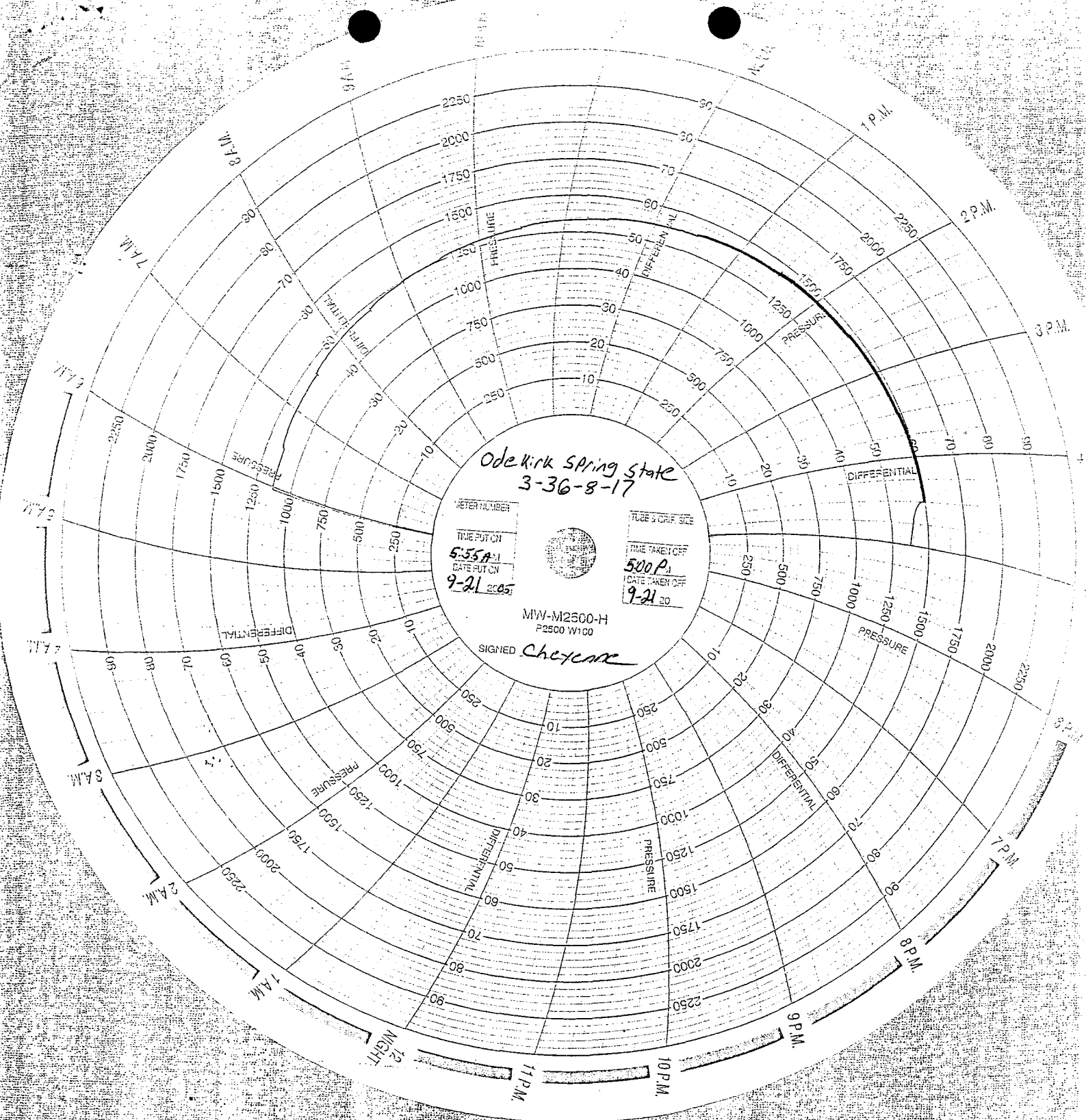
DIV. OF OIL, GAS & MINING

Odekirk Spring State 3-36-8-17  
Odekirk Spring Unit  
Step Rate Test  
September 21, 2005



Start Pressure: 1130 psi  
 Instantaneous Shut In Pressure (ISIP): 1465 psi  
 Top Perforation: 4548 feet  
 Fracture pressure (Pfp): 1435 psi  
 FG: 0.751 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1165
2	200	1210
3	300	1255
4	400	1300
5	500	1340
6	600	1380
7	700	1420
8	800	1450
9	900	1475
10	1000	1495



Ode Kirk Spring State  
3-36-8-17

METER NUMBER

TIME PUT ON

5:55 P.M.

GATE PUT ON

9-21 2005

TUBE & CUP SIZE

TIME TAKEN OFF

5:00 P.M.

GATE TAKEN OFF

9-21 20

MW-M2500-H  
P2500 W100

SIGNED *Chet Kane*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 200  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

OCT 21 2005

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
Vice President - Operations  
Newfield Production Company  
Route 3 - Box 3630  
Myton, UT 84502

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

43.047.33015  
RE: UNDERGROUND INJECTION CONTROL (UIC)  
**Minor Permit Modification**  
Increase Injection Pressure: No. 2  
EPA Permit No. UT20891-04600  
Odekirk Spring State No. 3-36-8-17  
NE NW Sec. 36 - T8S - R17E  
Uintah County, Utah

RECEIVED  
OCT 26 2005

DIV. OF OIL, GAS & MINING

Dear Mr. Guinn:

The Region VIII Ground Water Program offices of the Environmental Protection Agency (EPA) received from Newfield Production Company (Newfield) the results and analysis of a September 21, 2005 Step-Rate Test (SRT) run on the Odekirk Spring State No. 3-36-8-17 enhanced recovery injection well, EPA Permit No. UT20891-04600. Included with the results was a request to increase the maximum allowable injection pressure (MAIP) from 1400 psig to **1435 psig**.

EPA has reviewed the Permit File, and the submitted SRT information show that the formation parting pressure of the injection zone was reached under the conditions recorded during the test. Based upon this test and the EPA analysis, the Director has determined that a pressure of **1435 psig**, measured at the surface, is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone overlying the injection zones, and underground sources of drinking water (USDW) will continue to be protected.

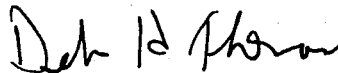
Therefore, pursuant to 40 CFR §144.41 (e), the EPA hereby modifies EPA Permit No. 20891-04600 and **authorizes a MAIP of 1435 psig** for the Odekirk Spring State No. 3-36-8-17 enhanced recovery injection well.

Should Newfield in the future choose to request a modification to the approved MAIP, new supporting data such as a new SRT will be required as part of your request. In order to inject at pressures greater than the permitted MAIP during any future test(s), the permittee must receive prior authorization from the Director.

If you have any questions in regard to the above action, please contact Dan Jackson of my staff by calling 303-312-6155, or 1-800-227-8917 (Ext. 6155).

Please send all compliance correspondence relative to this well to the **ATTENTION: NATHAN WISER**, at the letterhead address citing **MAIL CODE: 8ENF-UFO** very prominently. You may call Mr. Wiser at 303-312-6211, or 1-800-227-8917 (Ext. 6211).

Sincerely,



*for* Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

David Gerbig  
Operations Engineer  
Newfield Production Company  
Denver, Colorado

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources

Matt Baker  
Petroleum Engineer  
Bureau of Land Management  
Vernal District

Nathan Wiser  
8ENF-UFO

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-44305

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 660 FNL 1980 FWL

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
ODEKIRK SPRING UNIT

8. WELL NAME and NUMBER:  
ODEKIRK SPRING 3-36-8-17

9. API NUMBER:  
4304733015

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 36, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  12/24/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 5 Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 12/12/07 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 12/24/07. On 12/24/07 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbq pressure was 1410 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT 20891-04600 API# 43-047-33015

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

**RECEIVED**

**DEC 27 2007**

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Callie Ross

TITLE Production Clerk

SIGNATURE

*Callie Ross*

DATE 12/26/2007

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 12/24/07  
Test conducted by: Dale Giles  
Others present: \_\_\_\_\_

Well Name: <u>Odekirk Spring 3-36-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Odekirk Spring Unit</u>		
Location: _____	Sec: <u>36</u> T <u>8</u> N <u>15</u> R <u>17</u> E/W	County: <u>Duchesne</u> State: <u>ut</u>
Operator: <u>Newfield production co.</u>		
Last MIT: <u>1</u> / <u>1</u> / _____	Maximum Allowable Pressure: <u>1435</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No  
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 64 bpd

Pre-test casing/tubing annulus pressure: 0 psig

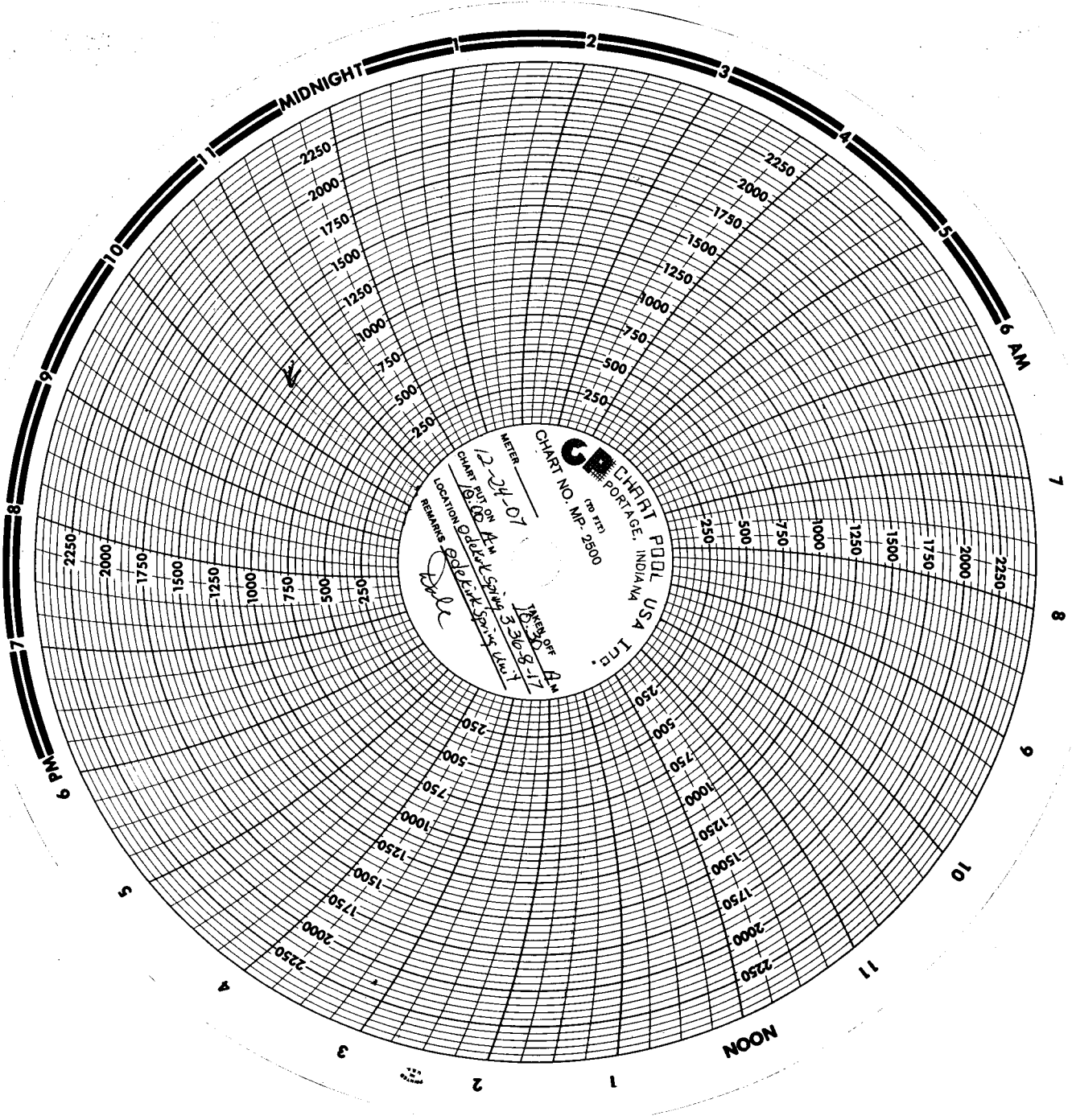
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	<u>1410</u> psig	psig	psig
End of test pressure	<u>1410</u> psig	psig	psig
<b>CASING / TUBING</b>	<b>ANNULUS</b>	<b>PRESSURE</b>	
0 minutes	<u>1100</u> psig	psig	psig
5 minutes	<u>1100</u> psig	psig	psig
10 minutes	<u>1100</u> psig	psig	psig
15 minutes	<u>1100</u> psig	psig	psig
20 minutes	<u>1100</u> psig	psig	psig
25 minutes	<u>1100</u> psig	psig	psig
30 minutes	<u>1100</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-44305
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> ODEKIRK SPRING 3-36-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FNL 1980 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 36 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047330150000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/19/2012	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input type="text" value="5 YR MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  On 11/15/2012 Sarah Roberts with the EPA was contacted concerning the 5 year MIT on the above listed well. On 11/19/2012 the casing was pressured up to 1010 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1331 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20891-04600		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 03, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/27/2012	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 11/19/2012  
Test conducted by: Chris Walters  
Others present: \_\_\_\_\_

1020891-04600

Well Name: <u>Ode Kirk Spring 3-36-8-17</u>		Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte</u>			
Location: <u>NE NW</u> Sec: <u>36</u> T: <u>8</u> N: <u>10</u> R: <u>17</u> E: <u>W</u>		County: <u>Uintah</u>	State: <u>UT</u>
Operator: <u>Newfield</u>			
Last MIT: <u>1</u> / <u>1</u>		Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1010 psig

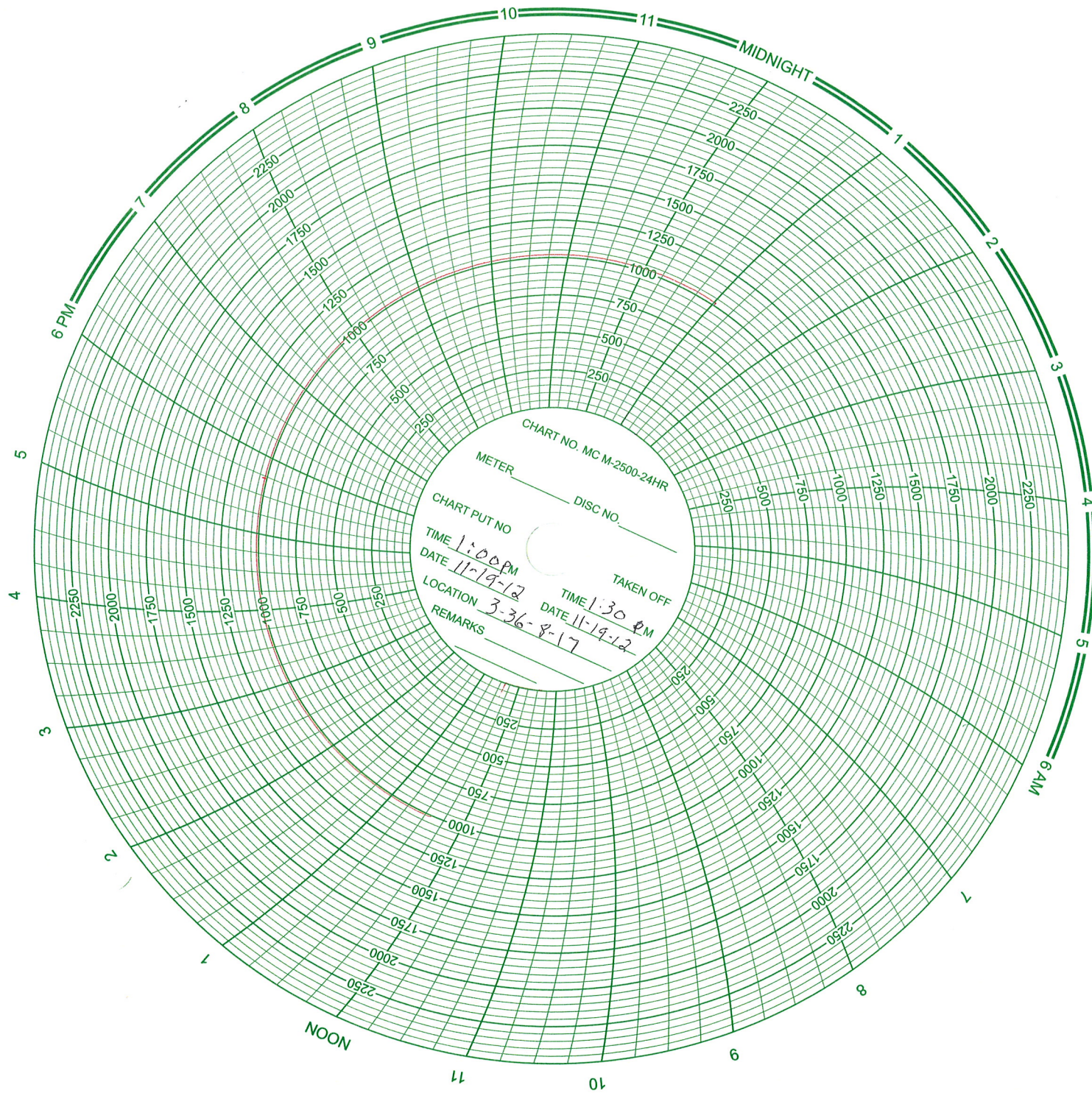
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1331</u> psig	psig	psig
End of test pressure	<u>1331</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1010</u> psig	psig	psig
5 minutes	<u>1010</u> psig	psig	psig
10 minutes	<u>1010</u> psig	psig	psig
15 minutes	<u>1010</u> psig	psig	psig
20 minutes	<u>1010</u> psig	psig	psig
25 minutes	<u>1010</u> psig	psig	psig
30 minutes	<u>1010</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Chris Walters



Spud Date: 1/30/98  
 Put on Production: 4/20/98  
 GI.: 5059' KB: 5069'

# Odekirk Spring 3-36-8-17

Initial Production: 86 BOPD,  
 155 MCFPD, 5 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293')  
 DEPTH LANDED: 303'(GL)  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 svs Premium cmt, est 4 bbls cmt to surf.

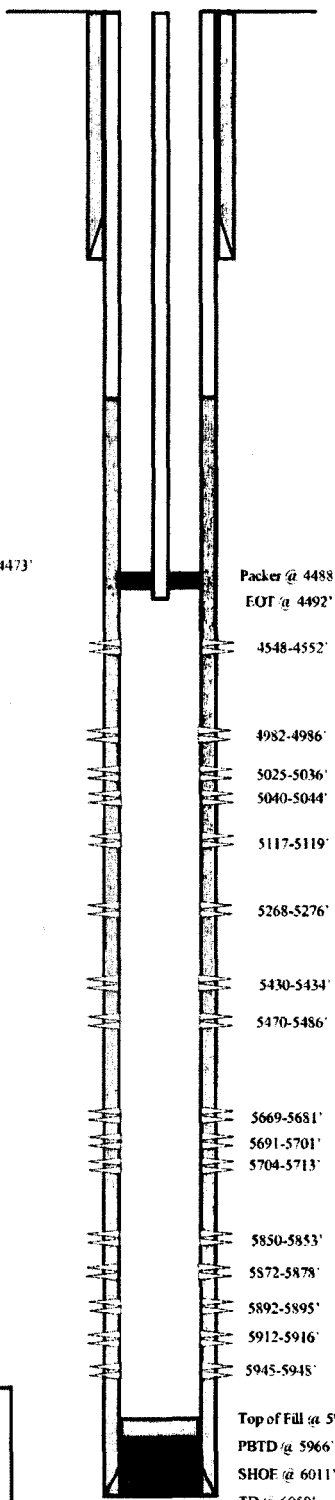
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 140 jts. (6001')  
 DEPTH LANDED: 6011'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sk Hibond mixed & 350 svs thixotropic  
 CEMENT TOP AT: 1415' CBL SN @ 4473'

## TUBING

SIZE/GRADE/WL: 2-7/8"/6.5#/M-50 tbg.  
 NO. OF JOINTS: 144 jts. (4472.36')  
 SEAT NIPPLE: 4473.46'  
 PACKER: 4487.96'  
 TOTAL STRING LENGTH: EOT @ 4492'

## Injection Wellbore Diagram



## FRAC JOB

4/9/98 5850'-5948' Frac CP-1 & CP-2 sands as follows:  
 111,300# 20/40 sand in 562 bbls Delta  
 frac fluid. Treated @ avg press of 1500  
 psi w/avg rate of 30 bpm. ISIP: 1685 psi.

4/11/98 5669'-5713' Frac LODC sand as follows:  
 111,300# of 20/40 sand in 551 bbls Delta  
 Frac fluid. Treated @ avg press of 1700  
 psi w/avg rate of 28 bpm. ISIP-2192 psi.

4/14/98 5268'-5276' Frac B-1 sand as follows:  
 104,400# 20/40 sand in 527 bbls Delta  
 Frac fluid. Treated @ avg press of 1635  
 psi w/avg rate of 26.2 bpm. ISIP: 2368  
 psi.

4/16/98 4982'-5119' Frac D-1, D-2 & C sands as follows:  
 137,200# of 20/40 sand in 625 bbls  
 Delta Frac fluid. Treated @ avg press  
 of 1970 psi w/avg rate of 35 bpm. ISIP-  
 2156 psi.

10/5/01 5430'-5486' Frac A-1, A-3 sands as follows:  
 40,350# of 20/40 sand in 340 bbls  
 Viking 1-25 fluid. Treated @ avg press  
 of 2925 psi w/avg rate of 16.8 bpm. ISIP-  
 1880 psi.

10/08/01 4548'-4549' Break down GB-6 with 1700 psi @ 1  
 bpm. ISIP 1700 psi. No frac.

12/27/02 Converted to Injection Well

12/24/07 5 Year MIT completed and submitted.

## PERFORATION RECORD

Date	Depth Range	Tool	Holes
4/8/98	5850'-5853'	4 JSPF	12 holes
4/8/98	5872'-5878'	4 JSPF	24 holes
4/8/98	5892'-5895'	4 JSPF	12 holes
4/8/98	5912'-5916'	4 JSPF	16 holes
4/8/98	5945'-5948'	4 JSPF	12 holes
4/10/98	5669'-5686'	2 JSPF	36 holes
4/10/98	5691'-5701'	2 JSPF	20 holes
4/10/98	5704'-5712'	2 JSPF	18 holes
4/13/98	5268'-5276'	4 JSPF	32 holes
4/15/98	4982'-4986'	4 JSPF	16 holes
4/15/98	5025'-5036'	4 JSPF	44 holes
4/15/98	5040'-5044'	4 JSPF	16 holes
4/15/98	5117'-5119'	4 JSPF	8 holes
10/4/01	5470'-5486'	4 JSPF	64 holes
10/4/01	5430'-5434'	4 JSPF	16 holes
10/4/01	4548'-4552'	4 JSPF	16 holes

**NEWFIELD**

Odekirk Spring 3-36-8-17  
 660' FNL & 1980' FWL  
 NENW Section 36-T8S-R17E  
 Uintah Co, Utah  
 API #43-047-33015; Lease #ML-44305